

Lecture Notes for GenAI Educational Agents Training Workshop

Ir Prof Alan Lam, JP



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Image Creator Agent for Poster Design



1. Design an professional event poster for GenAI Training workshop Demo Day in CityUHK IFL on 22nd July, 2026, from 2:00 PM to 5:00 PM. Topic is GenAI Training workshop Demo Day. This workshop provides GenAI training for primary and secondary school teachers, who will demo their own GenAI agents.

Output: https://poffices.ai/generation-history?share_id=gt_6a5c4b0e76857



2. Design a poster for GenAI Training workshop Demo Day using using an professional and educational poster style included with the topic and Time. Detail info: 1) Topic: is GenAI Training workshop Demo Day. 2) Time: 22nd July, 2026, from 2:00 PM to 5:00 PM. 3) Workshop background: This workshop provides GenAI training for primary and secondary school teachers, who will demo their own GenAI agents.

Output: https://poffices.ai/generation-history?share_id=gt_6a5c4ba9aa36d



3. Design a poster for GenAI Training workshop Demo Day using a professional and educational poster style. Detail info: 1) Topic: GenAI Training workshop Demo Day. 2) Time: 22nd July, 2026, from 2:00 PM to 5:00 PM. 3) Location: CityUHK 4) Workshop background: GenAI training for primary and secondary school teachers, who will demo their own GenAI agents. Note: Place the topic at the top of the poster, the time and location at the bottom.

Output: https://poffices.ai/generation-history?share_id=gt_6a5c4c7916951

Demo Day Poster Submission



Institute of Future Learning

香港城市大學
City University of Hong Kong



Project Poster Submission

Use the form below, or [Link](#) to submit your project poster by 17 July 2026 (Friday).
Poster template: [Download](#)

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Poster Submission – Generative AI Agents Development Training 2026 Poster

Submission Deadline: 17 July 2026 (Friday).
(Please note that due to the tight schedule in poster printing, your timely submission of the posters is appreciated.)

Guidelines (A0 sized Poster)

- Please prepare your poster using this [PowerPoint template](#).
- Font size should be no smaller than 40 points.
- Please use Arial font.
- You are welcome to adjust the colours and overall design of the poster to best present your work.
- Keep the layout clear and uncluttered so that key messages can be



Institute of Future Learning

香港城市大學
City University of Hong Kong

(insert your school logo here, if appropriate)

Your Project Title
Your Name (Your Student Number)
Your School

Project Background:

- e.g., Long-hours spent on repetitive tasks i.e. preparing in-class short quizzes / pre-class readings, which refrain teachers from giving in personalized care and feedback to students

Students' feedback:
" I want more interactive learning experience during History classes "
" I think pre-class readings can help me better understand the knowledge "

Minutes spent on preparing in-class short quizzes

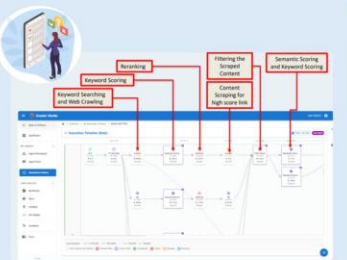


Subject	Before	After
History	20	10
English Language	25	10

Solution:
(how my solution can assist students' learning / my teaching)

- E.g., developed an AI Agent using Poffices.ai to automate the preparation of in-class quizzes
- E.g., developed an AI Agent workflow using to automate the preparation of in-class quizzes

(insert photos / figures and demonstrations, if applicable)



Reflection and Next Steps:
(How to evaluate effectiveness of the AI agent and expand to other aspects of work)

- E.g., Efficiency in preparing in-class quizzes sped up by 15-minutes per class, Teacher's role now focuses more on student rather than repetitive tasks
- Possibility of extending to administrative duties such as generating school notices



Contact: **Your Name & email** (optional)

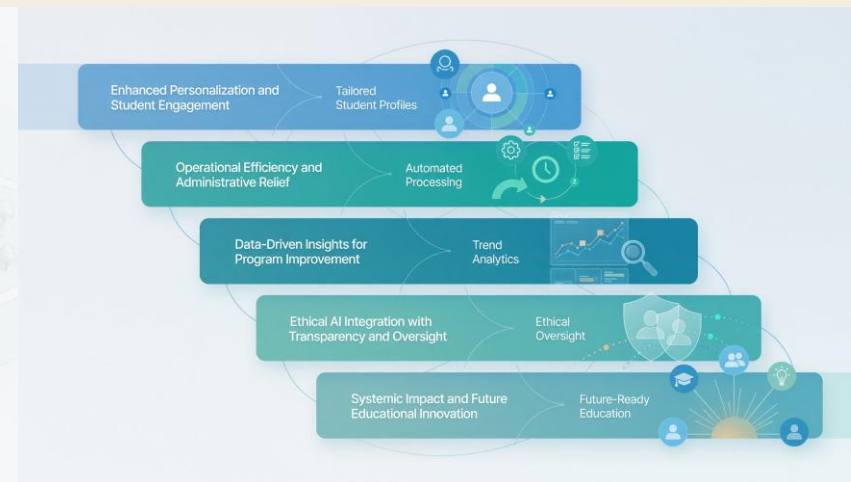
Presented by Ir Prof Alan Lam, JP, Powered by [Poffices.ai](#)

<https://www.cityu.edu.hk/ifl/materials.htm>

p.2

Lecture Chapter Agent for Poster Content Generation

Design a poster content for GenAI project about GenAI Agents for Student Activity Planning that includes Student characteristic analysis agent to identify the personality of the student and then Student activity recommendation agent to suggest suitable school activities and finally the activity registration agent provide activity registration for student. Pls based on the above project information to write the content with three sessions for Poster including 1) Project Background, 2) Solution and 3) Impact and Contribution. Each session content should be in point form



Project Background

- Students face challenges in selecting suitable school activities matching their personalities.
- Traditional activity planning lacks personalized guidance based on student traits.
- Increasing diversity in student interests necessitates adaptive recommendation systems.
- Manual registration processes are time-consuming and prone to errors.
- AI presents opportunities for automating personalized activity planning and registration.
- GenAI agents can analyze student characteristics and streamline activity management.

Solution

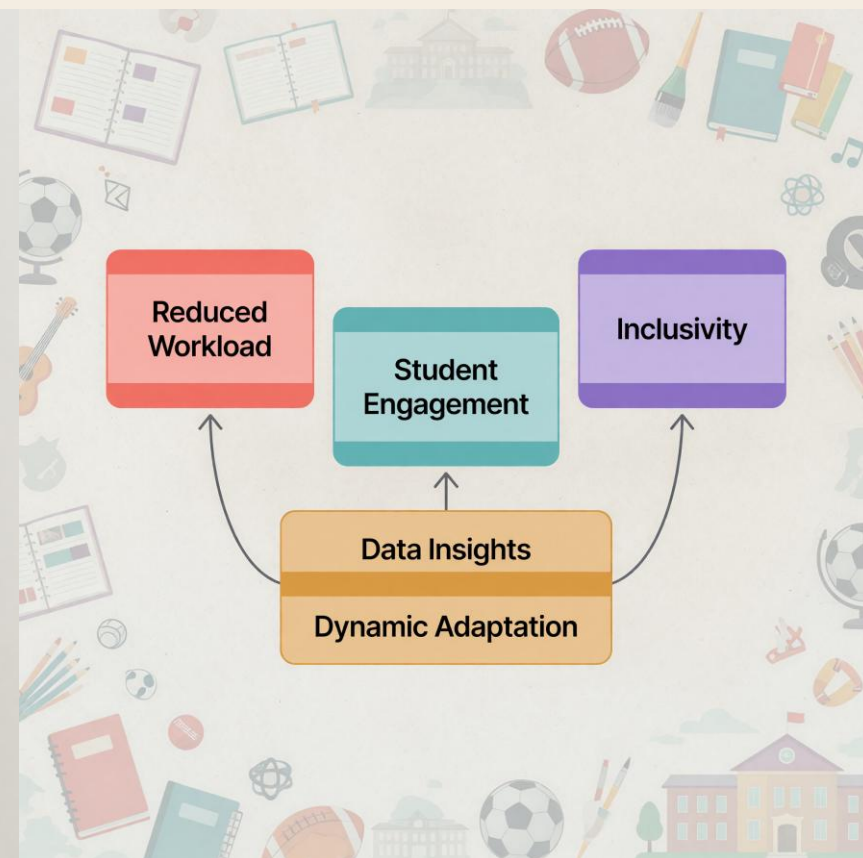
- Student Characteristic Analysis Agent identifies individual personality traits using AI.
- Activity Recommendation Agent suggests school activities tailored to student profiles.
- Activity Registration Agent automates enrollment processes for selected activities.
- Agents operate autonomously with adaptive, context-aware decision-making capabilities.
- Integration of multi-agent system ensures seamless, end-to-end student activity planning.
- System uses real-time data to update recommendations and registration status efficiently.

Impact and Contribution

- Enhances student engagement by aligning activities with personal interests and traits.
- Reduces administrative workload through automated registration and planning.
- Promotes inclusivity by accommodating diverse student personalities and preferences.
- Facilitates data-driven insights into student activity participation trends.
- Supports dynamic adaptation to changing student needs and school event offerings.
- Advances application of Agentic AI in educational environments for personalized services.

Lecture Note Agent for Poster Content Generation

Design a poster content for GenAI project about GenAI Agents for Student Activity Planning that includes Student characteristic analysis agent to identify the personality of the student and then Student activity recommendation agent to suggest suitable school activities and finally the activity registration agent provide activity registration for student. Pls based on the above project information to write the content with three sessions for Poster including 1) Project Background, 2) Solution and 3) Impact and Contribution. Each session content should be in point form



General Education Agents for Teaching Plan and Exam Paper Generation



- Automate teaching plans for primary and secondary school curricula following latest HK education standards.
- Generate structured teaching notes aligned with syllabus and learning objectives.
- Create exam papers tailored to grade levels and subject requirements with balanced difficulty.
- Adapt content dynamically based on student performance trends and market educational data.
- Support both formative and summative assessment creation with variety in question types.

Poffices.ai for Education Application



Poffices.AI

Smart GenAI Platform
For Education, Work & Beyond

Describe the document to generate (e.g. Marketing plan for a toy shop)

Enter



 Chinese Primary Lecture



Disclaimer: Generated content may reference third-party materials. Users are responsible for verifying rights and usage. See [T&C](#) for detail.



Settings

General

Agent Master

Digital Assets

Agent Master Settings

Pipeline setup

Select agents below to build your pipeline.

Search agents or offices...

> My Office (0/1 selected)

> General Office (0/4 selected)

> HK Primary Education (0/30 selected)

> HK Secondary Education (0/78 selected)

> Business Office (0/9 selected)

> Strategy Office (0/15 selected)

> Research Office (0/5 selected)

> Project Office (0/5 selected)

> Sales & Marketing Office (0/10 selected)

Selected Agents 0/10

Start Building Your AI Workflow

1 Search or select agents from the left

2 Drag to reorder execution sequence

3 Same agent can be selected multiple times

Please select at least one agent to enable Agent Master Mode.

Clear All

Please select at least one agent to enable Agent Master Mode.

Cancel

Apply Settings

Watch tour

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p.7

30 Primary Agents for Teaching Plan, Lecture Note, Exam

Agent Master Settings

Pipeline setup

Select agents below to build your pipeline.

Search agents or offices...

HK Primary Education

Chinese Primary Lecture

English Primary Lecture

Mathematics Primary Lecture

General Studies Primary Lecture

Visual Arts Primary Lecture

Music Primary Lecture

Physical Education Primary Lecture

Putonghua Primary Lecture

Moral and Civic Education Primary Lecture

Agent Master Settings

Pipeline setup

Select agents below to build your pipeline.

Search agents or offices...

Chinese Primary Teaching Plan

English Primary Teaching Plan

Mathematics Primary Teaching Plan

General Studies Primary Teaching Plan

Visual Arts Primary Teaching Plan

Music Primary Teaching Plan

Physical Education Primary Teaching Plan

Putonghua Primary Teaching Plan

Moral and Civic Education Primary Teaching Plan

Technology Education Primary Teaching Plan

Chinese Primary Exam

Agent Master Settings

Pipeline setup

Select agents below to build your pipeline.

Search agents or offices...

Chinese Primary Exam

English Primary Exam

Mathematics Primary Exam

General Studies Primary Exam

Visual Arts Primary Exam

Music Primary Exam

Physical Education Primary Exam

Putonghua Primary Exam

Moral and Civic Education Primary Exam

Technology Education Primary Exam

Selected Agents

0/10

Start Building Your AI Workflow

1

Search or select agents from the left

2

Drag to reorder execution sequence

3

Same agent can be selected multiple times

Please select at least one agent to enable Agent Master Mode.

Clear All

78 Secondary Agents for Teaching Plan, Lecture Note, Exam

Agent Master Settings

Pipeline setup

Select agents below to build your pipeline.

Search agents or offices...

HK Secondary Education

Chinese Language Secondary Lecture

English Language Secondary Lecture

Mathematics Secondary Lecture

Citizenship and Social Development Secondary Lecture

Integrated Science Secondary Lecture

Physics Secondary Lecture

Chemistry Secondary Lecture

Biology Secondary Lecture

History Secondary Lecture

Agent Master Settings

Pipeline setup

Select agents below to build your pipeline.

Search agents or offices...

Chinese Language Secondary Teaching Plan

English Language Secondary Teaching Plan

Mathematics Secondary Teaching Plan

Citizenship and Social Development Secondary Teaching Plan

Integrated Science Secondary Teaching Plan

Physics Secondary Teaching Plan

Chemistry Secondary Teaching Plan

Biology Secondary Teaching Plan

History Secondary Teaching Plan

Geography Secondary Teaching Plan

Economics Secondary Teaching Plan

Agent Master Settings

Pipeline setup

Select agents below to build your pipeline.

Search agents or offices...

Chinese Language Secondary Exam

English Language Secondary Exam

Mathematics Secondary Exam

Citizenship and Social Development Secondary Exam

Integrated Science Secondary Exam

Physics Secondary Exam

Chemistry Secondary Exam

Biology Secondary Exam

Geography Secondary Exam

Economics Secondary Exam

Chinese History Secondary Exam

Selected Agents

0/10

Start Building Your AI Workflow

1

Search or select agents from the left

2

Drag to reorder execution sequence

3

Same agent can be selected multiple times

Please select at least one agent to enable Agent Master Mode.

Clear All

Practical Exercise

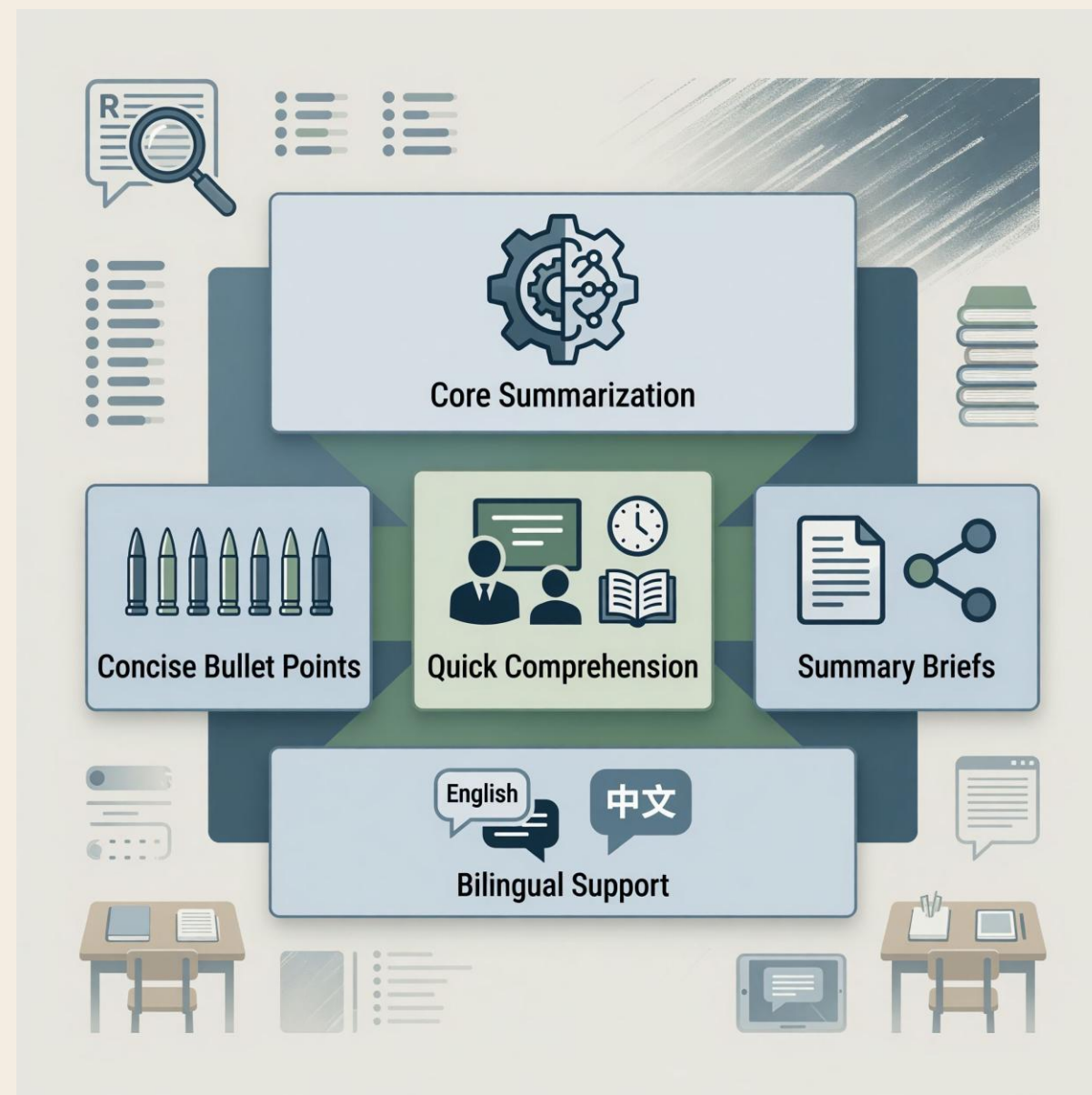
1. Keep this note confidential. You must NOT share to others or release to public.
2. Login <https://poffices.ai/>
3. Using Agent Master to choose the above education agent and input the prompt accordingly
4. Using General agent and input the same prompt
5. Review the results and compare education agent and general agent



(1) Click **Agent Master** to choose newly created agents

Paper Summarizer for Article Summarization

- Condense lengthy educational articles into concise bullet points highlighting key concepts.
- Use natural language processing to identify core themes and eliminate redundancy.
- Facilitate quick comprehension for teachers and students in limited study time.
- Enhance learning materials by providing summary briefs with linked references.
- Support multiple languages reflecting Hong Kong's bilingual education environment.



File Handling by Metadata Extractor and Metadata Builder



Poffices.AI

Smart GenAI Platform
For Education, Work & Beyond

Input the instruction for the summarization for attached document

Choose Summarizer agent in agent master

Summarize the attached file

Upload file



R1_A_Deep_Learning-Based_Smart_Baseball_Training_System_for_Batting_Performance_Digitalization-compressed.pdf

Disclaimer: Generated content may reference third-party materials. Users are responsible for verifying rights and usage. See [T&C](#) for detail.

File uploaded in Poffices.ai



 Language

 Alan CityUEE

Summarizer

Good afternoon, Alan CityUEE!

Quick status upd

Time of preparation: **1.2s**



Preparing your document...
It approximately takes 2 minutes.

Files Uploaded

Files have been uploaded. Processing may take longer than usual — please wait while we complete the extraction.

Got it (3)

 The presence of images or references in the result depends on (1) the document type, (2) the web search results and (3) the subscription plan limitations.

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Summarizer

Good afternoon, **Alan CityUEE**!

Quick status update on your request:

Request received: "Summarize the attached file". Agent **Summarizer** (Agent **190 (summarizer)**) is handling the execution.

Processing has started with the given parameters, and the result will be available shortly.

 **R1_A_Deep_Learning_Based_Smar...**
compressed.pdf
7.6 MB

Time of preparation: **1.2s** Time of completion: **118.5s**

A Deep-Learning Based Consumer Grade Smart Baseball Training System for Batting Performance Digitalization

I. INTRODUCTION

- Rising demand for scientific sports training with consumer-friendly digitalization.
- Traditional methods limited by high cost and lack of real-time feedback.
- AIoT technologies enable fast, accurate, affordable sports digitalization.
- Baseball system uses camera-based IoT node with smartphone for 3D batting capture.
- Proposes SimRepYOLOv4 model integrating RepVGG, CBAM, and NAM for lightweight detection.
- System achieves over 99.14% AP and 96.9% accuracy in distance calculation.

Text has been summarized and image database was built

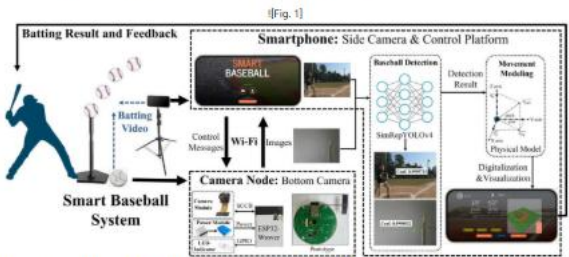
A Deep-Learning Based Consumer Grade Smart Baseball Training System for Batting Performance Digitalization

I. INTRODUCTION

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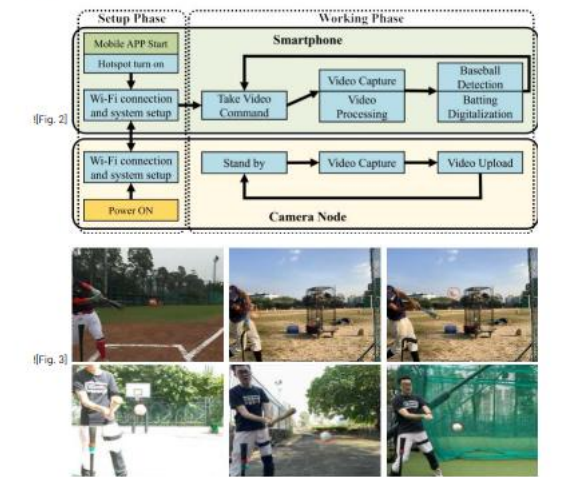
II. RELATED WORK

- Prior sports digitalization used multi-exposure and stereo vision for ball trajectory.
- Baseball systems rely on expensive multi-sensor setups or slow, impractical methods.
- Proposed system focuses on low-cost, consumer-grade vision-based digitalization.
- Uses deep learning and physical models to analyze baseball motion efficiently.



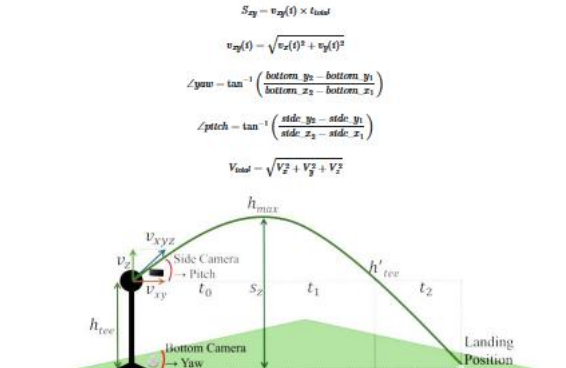
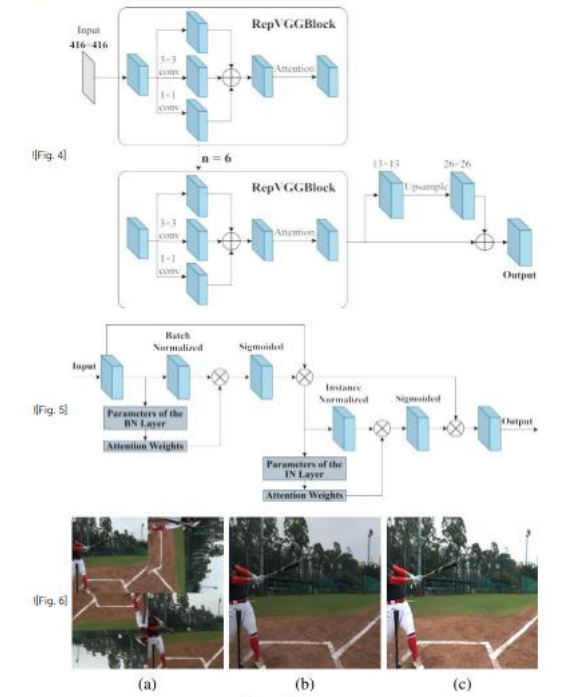
III. SYSTEM ARCHITECTURE DESIGN

- System includes ESP32-WiFi camera node (bottom-view) and smartphone (side-view & control).
- Camera node captures batting video, transmits via Wi-Fi to smartphone for processing.
- Smartphone visualizes speed, angles, distance, and 3D trajectory in real-time.
- Architecture optimized for low compute load and battery efficiency.
- Workflow phases: setup (Wi-Fi config) and working (video capture, detection, digitalization).

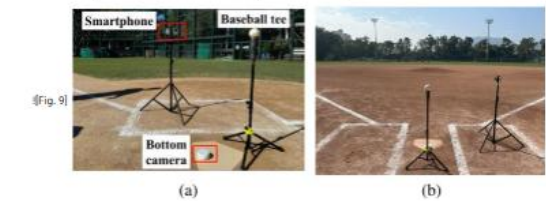


IV. METHODOLOGY

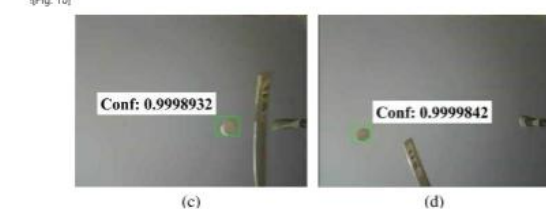
- Vision-based system uses lightweight YOLOv4 with RepVGG backbone and CBAM/NAM attention modules for baseball detection.
- Model optimized for small, fast-moving objects under various lighting and blur conditions.
- Mosaic and exposure augmentations improve robustness and generalization.
- Physical model decomposes velocity in 3D, calculates flight distance, yaw, and pitch angles from multi-angle video.
- Velocity and trajectory derived from pixel displacement and known baseball diameter.



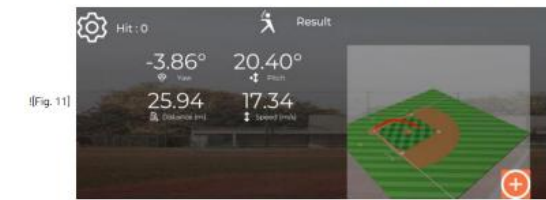
- Field test setup with one camera node and smartphone validates system in real baseball field.



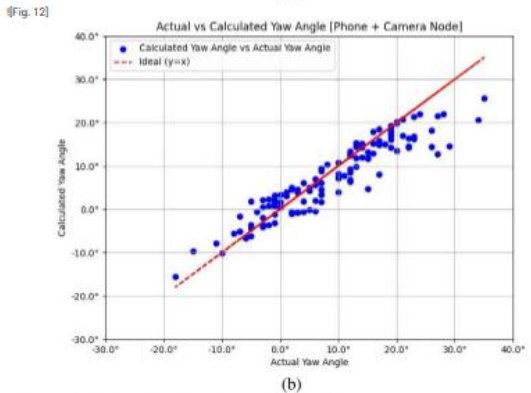
- Baseball detected in both views with high confidence confirms system function.



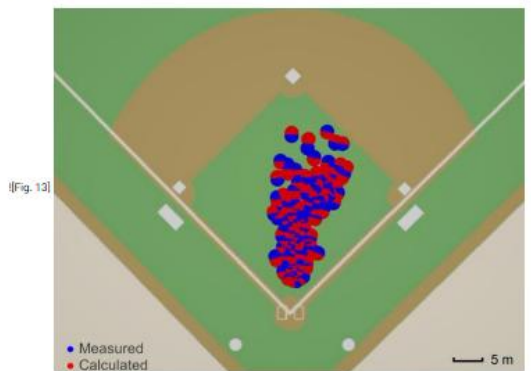
- Calculated batting parameters closely match actual measurements; simulated trajectory visualized accurately.



Date	Number	Distance (m)	Speed (m/s)	Pitch (°)	Yaw (°)
2024-Nov-29	25	12.77	13.22	16.95	1.86
2024-Dec-10	45	14.16	13.48	24.11	8.99
2024-Dec-19	30	18.00	14.80	25.84	11.45
2025-Apr-15	26	19.75	16.03	24.14	4.49
Metric	Result				
Average Actual Dist.	15.83 m				
Average Calculated Dist.	15.96 m				
Average Actual Yaw	8.71°				



- Lighting tests (507 trials) confirm stable system accuracy across ambient brightness variations.
- Distance accuracy exceeds 94% under all lighting; pitch error slightly rises in twilight.
- System visualizes landing points on a real baseball field with strong consistency.



Subject	Practice 1 Speed (m/s)	Angle (°)	Distance (m)	Practice 2 Speed (m/s)	Angle (°)	Distance (m)	Improvement
Beginner 1	14.63	18.16	14.62	14.01	28.21	17.48	+2.86 m (19.6%)
Beginner 2	13.89	30.17	14.75	15.40	24.03	17.99	+3.24 m (22.0%)

- System provides actionable feedback to improve launch angle and hitting power.
- Beginners show measurable improvement in batting performance after 10 days training.

VI. CONCLUSION

- Proposed low-cost smart baseball system digitizes batting using camera node and smartphone.
- Developed SimRepYOLOv4 model balances accuracy (>99% AP), lightweight design, and speed for mobile use.
- Physical trajectory model enables precise 3D flight and distance calculations (96.9% accuracy).
- System adaptable to diverse lighting, supports flexible training with practice nets.
- Demonstrates potential for fast ball sport digitalization; future work includes faster cameras, rotation detection, and environmental factor integration.

The summarized output can be saved as docx source file

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搜索

檔案 常用 插入 設計 版面配置 參考資料 郵件 校閱 檢視 說明 RCM Acrobat

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Abstract Abstract Title Author Compact First Paragraph

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Deep-Learning Based Consumer Grade Smart Baseball Training System for Batting Performance Digitalization

1. INTRODUCTION

- Intelligent and accurate sports training with consumer-friendly digitalization.
- Traditional methods limited by high cost and lack of real-time feedback.
- AI technology enables real-time, accurate, affordable sports digitalization.
- Baseball training camera-based ball route with wear-free for 3D training system.
- Proposed digitalized smart training system (DST) and ML for high-precision training.
- System achieves over 90.04% AP and 90.96% accuracy in distance calculation.

2. RELATED WORK

- First sports digitalization and end-user experience and review for ball trajectory.
- Baseball training system compression video capture and slow-motion capture.
- Proposed system for consumer-grade smart baseball training system.
- Wearable training and physical models to analyze ball route with accuracy.

Fig. 1



Fig. 2

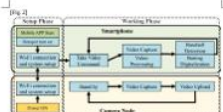


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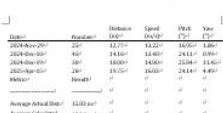


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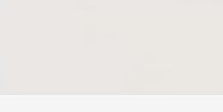


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The summarized output can be saved as pptx source file

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錄製 在 Teams 中展示 共用

A Deep-Learning Based Consumer Grade Smart Baseball Training System for Batting Performance Digitalization

Alan Lam

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II. RELATED WORK

Batting Result and Feedback

Smartphone: Side Camera & Control Platform

Baseball Detection

Smart Baseball System

Camera Node: Bottom Camera

Presented by Alan Lam, Powered by Poffices.ai

III. SYSTEM ARCHITECTURE DESIGN

Setup Phase

Working Phase

Smartphone

Camera Node

Presented by Alan Lam, Powered by Poffices.ai

IV. METHODOLOGY

Input 416×416

RepVGGBlock

Attention

n = 6

Upsample

Output

Presented by Alan Lam, Powered by Poffices.ai

V. EVALUATION AND TESTING

Smartphone

Baseball tee

Bottom camera

(a)

(b)

Presented by Alan Lam, Powered by Poffices.ai

End of Presentation Thank You

Presented by Alan Lam, Powered by Poffices.ai

投影片 5 / 0 .. 5 繁體中文 (香港特別行政區) 協助工具: 調查

180%

The pptx source file includes image and text as note

自動儲存 關閉 A Deep-Learning Based Consumer Grade Smart Baseball Training System for Batting Performance Digitalization (1) 沒有標籤 · 已儲存到此電腦 搜尋

檔案 常用 插入 繪圖 設計 轉場 動畫 投影片放映 錄製 校閱 檢視 說明 Acrobat

剪貼簿 剪貼 複製 複製格式 版面配置 新投影片 重設 章節 投影片

Aptos (本文) 12 A⁺ A⁻ B I U S AV Aa 文字方向 對齊文字 轉換成 SmartArt 圖形 排列 快速樣式 圖形效果 尋找並取代 取代字型 濾取 編輯 建立 PDF 並共用連結 Adobe Acrobat 語音 聽寫 敏感度 增益集 設計工具

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

II. RELATED WORK

Batting Result and Feedback

Smartphone: Side Camera & Control Platform

Baseball Detection

Movement Modeling

Physical Model

Digitalization & Visualization

Smart Baseball System

Camera Node: Bottom Camera

Batting Video

Control Messages

Wi-Fi

Images

SimRepYOLOv4

Detection Result

Conf: 0.9999713

Conf: 0.9998932

Presented by Alan Lam, Powered by Poffices.ai

p.1

II. RELATED WORK

- Prior baseball digitalization used costly multi-exposure, stereo vision, or multi-sensors
- Existing systems are expensive or too slow for practical consumer use
- This system targets low-cost, consumer-grade vision-based digitalization
- Employs deep learning and physical models for efficient baseball motion analysis

End of Presentation
Thank You
投影片 1 / 0..5 英文 (美國) 協助工具: 調查

The uploaded file has been stored in Digital Assets page



My Digital Assets

Browse and manage your uploaded files and their extraction metadata



Search filename or content (min 3 chars)...

Status

Success

From



To



Active Filter(s): Status: Success Clear all

R1_A_Deep_Learning-Based_Smart_Baseball_Training_System_for_Batting_Performance_Digitalization-compressed.pdf

7.57 MB

13 pages

119 blocks

61,920 chars

Success

Related Document: [Go to](#)

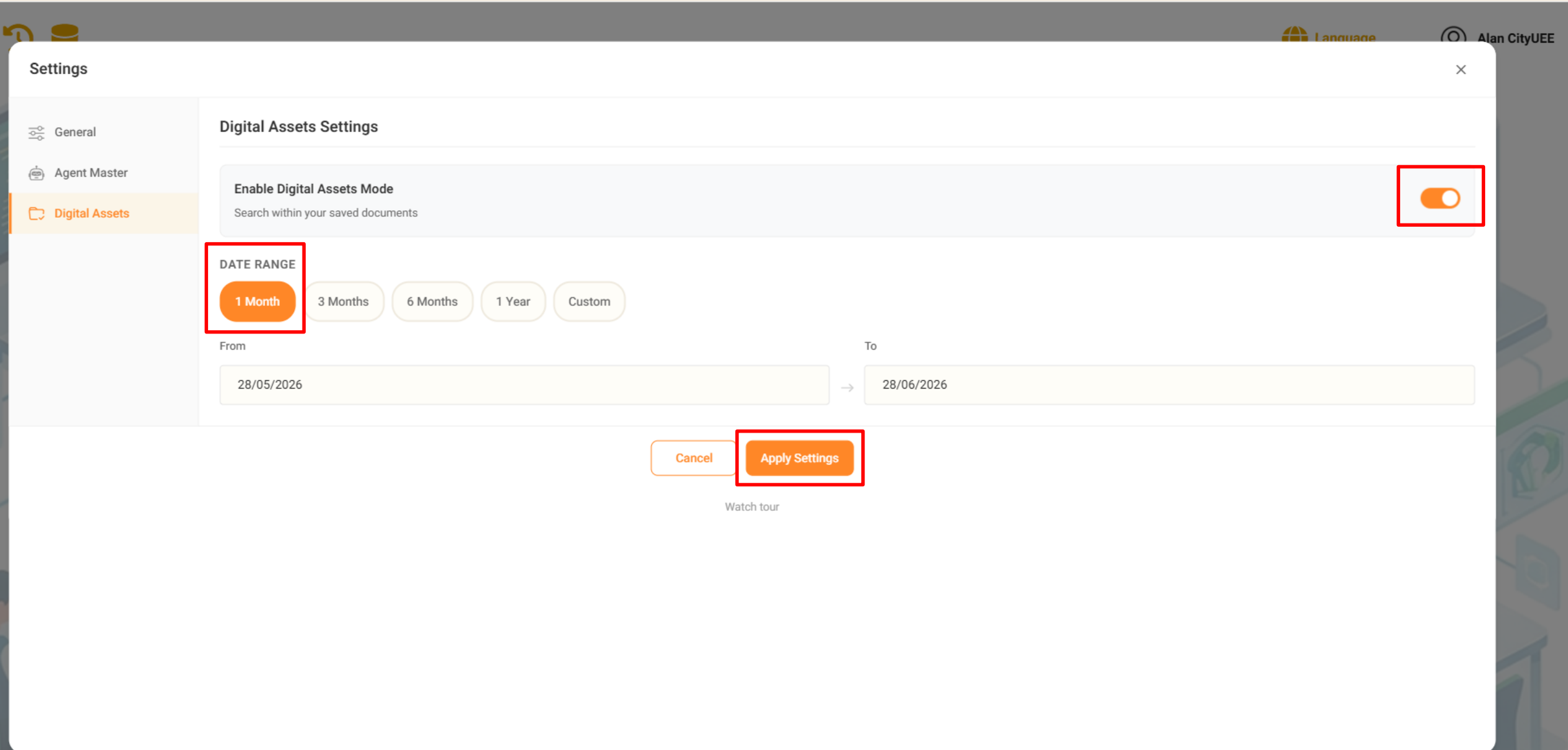


28/06/2026 12:51 pm

Showing 1-1 of 1 items

Click the Digital Assets Icon to review the processed file by Metadata Extractor and Metadata Builder. The uploaded source file can be downloaded by clicking the link below

Enable the Digital Assets mode by Digital Assets



Settings [X]

General
Agent Master
Digital Assets

Digital Assets Settings

Enable Digital Assets Mode
Search within your saved documents

DATE RANGE

1 Month 3 Months 6 Months 1 Year Custom

From: 28/05/2026 → To: 28/06/2026

Cancel **Apply Settings**

[Watch tour](#)

Using Chatbot to ask quick questions about digital assets



Alan CityUEE

Poffices.AI

Smart GenAI Platform
For Education, Work & Beyond

Input the instruction for
the question about the
previous document

Choose Chatbot agent
for the quick question

What is the methodology for detecting the baseball |

Click to
generate the
answer



Disclaimer: Generated content may reference third-party materials. Users are responsible for verifying rights and usage. See [T&C](#) for detail.

Quick and accurate answer to be obtained

chatbot

Good afternoon, Alan CityUEE!

Allow me to present the details regarding your request:

The request states: "What is the methodology for detecting the baseball". I have the honor to serve as **chatbot**, Agent 5 (**chatbot**), in handling this request.

The output requirements encompass: The document will be named "**Methodology for Detecting the Baseball**", it will be formatted as a/an **Chat**, written in **English**, following the **##Methodology for Detecting the Baseball** structure.

The thematic elements to be addressed are: **Baseball Detection Methodology**. These components will ensure the output meets all specified objectives.

Handling of this request has started, and the result will follow shortly after completion.

Time of preparation: **1s** Time of completion: **18.1s**

The methodology for detecting the baseball in the proposed system employs a vision-based approach utilizing a lightweight deep learning model designed to accurately and efficiently detect and locate the baseball within images, despite challenges such as fast movement, varying environmental brightness, and potential image blurring. The detection model, named simpler-RepVGG-YOLOv4 (SimRepYOLOv4), is based on the YOLOv4 architecture with RepVGG as the backbone. It integrates advanced attention mechanisms, specifically the Convolutional Block Attention Module (CBAM) and Normalization Attention Mechanism (NAM), to enhance feature learning by focusing on relevant baseball features while suppressing environmental noise and uninformative data. Although the anchor mechanism is computationally costlier than anchor-free alternatives, it is employed here to simplify regression tasks, with customized anchor sizes derived by clustering bounding boxes to improve detection performance, considering the relatively fixed distance between the baseball and camera. Data augmentation techniques are utilized during model training to enhance robustness against different environmental conditions and object scales, ensuring the detector performs consistently under diverse and unpredictable settings. The model outputs a single detection head after the Feature Pyramid Network (FPN) to reduce post-processing time and improve efficiency since the baseball is a small target within the image. This approach achieves high detection accuracy and is fundamental for subsequent physical modeling and digitalization of the baseball's motion.

Practical Exercise

1. Keep this note confidential. You must NOT share to others or release to public.
2. Login <https://poffices.ai/>
3. Upload [Digital Education Blueprint](#) from [EDB webpage](#), then Follow the above steps to try the digital assets mode using Summarizer Agent.
4. Discuss your findings





Summarizer

Good morning, Alan Lam!

Here is a briefing regarding your request:

Request details: "Summarise the Digital Education Blueprint of Hong Kong". Summarizer (Agent 190 (summarizer)) is coordinating this request.

The response build is active and nearing completion, and the result will be made available shortly.

 DEBP_EN.pdf 

Time of preparation: 2.4s

Time of completion: 520.8s

Blueprint for Digital Education Development in Primary and Secondary Schools

I. Vision, Overall Objectives and Specific Indicators

- Vision to establish Hong Kong as a world-class digital education hub with innovative lifelong learners.
- Objectives include enhancing student digital literacy, strengthening teacher professionalism, optimising infrastructure, and fostering cross-sector collaboration.
- Specific indicators cover school-level planning, system-level resource platforms, comprehensive teacher AI training, and student AI Literacy Framework implementation.
- Emphasis on integrating AI literacy and digital skills holistically across education stages.

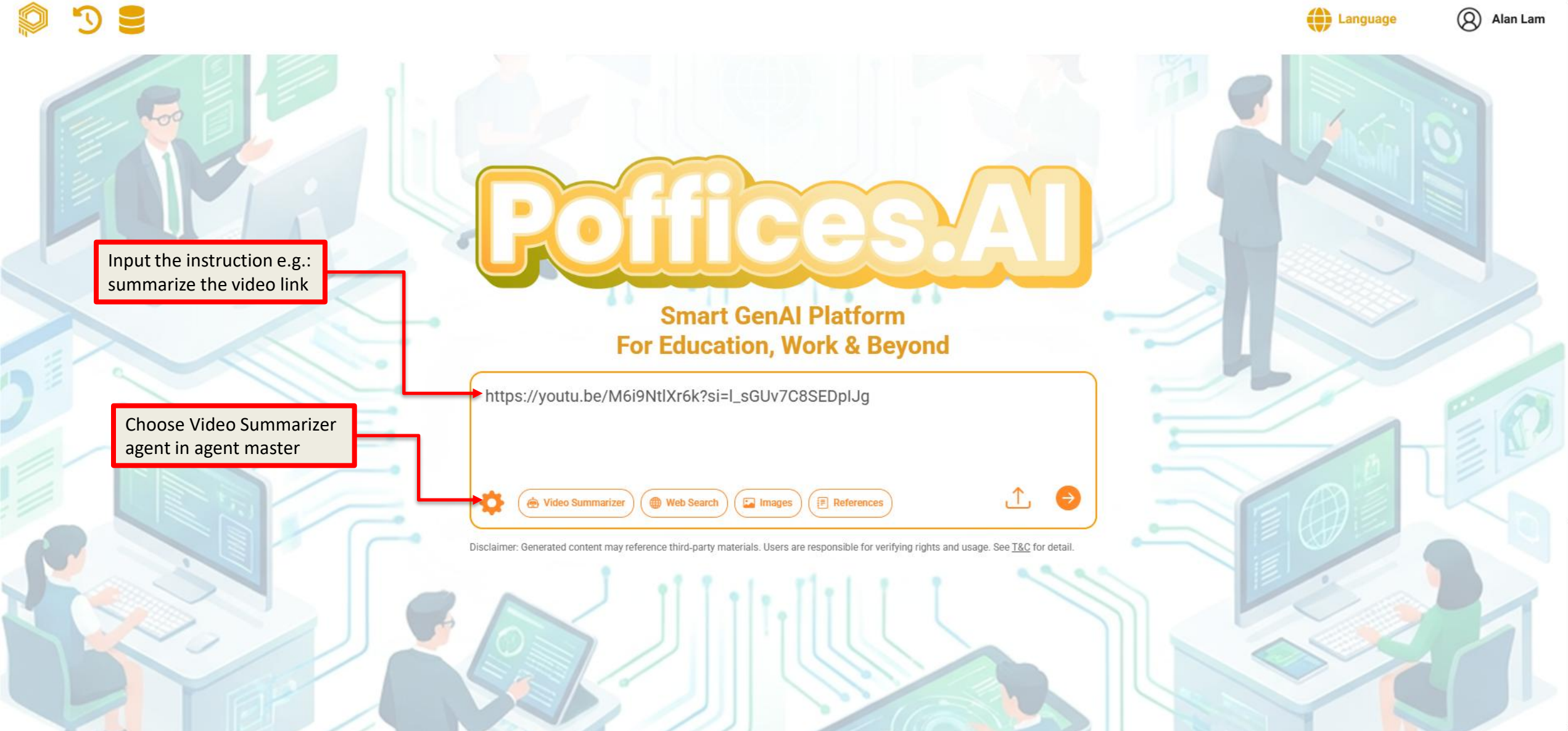
II. Development Positioning and Principles of Digital Education in Primary and Secondary Schools in Hong Kong

Video Summarizer for Video Summarization



- Extract key frames and transcribe spoken content from educational videos.
- Generate succinct textual summaries of video lessons for review and note-taking.
- Speed up revision processes by highlighting main points and important timestamps.
- Improve accessibility through summarized subtitles compatible with varying learning speeds.
- Integrate with school digital platforms for seamless student access and feedback.

Summarize the online video by the link



The image shows the Poffices.AI interface with several annotations. A red box on the left contains the text "Input the instruction e.g.: summarize the video link", with a red arrow pointing to the input field. Another red box below it contains the text "Choose Video Summarizer agent in agent master", with a red arrow pointing to the "Video Summarizer" button. The interface features a large yellow "Poffices.AI" logo, the subtitle "Smart GenAI Platform For Education, Work & Beyond", and a central input field containing the URL "https://youtu.be/M6i9NtIXr6k?si=l_sGUv7C8SEDpIJg". Below the input field are buttons for "Video Summarizer", "Web Search", "Images", and "References", along with an upload icon and a submit arrow. A disclaimer at the bottom states: "Disclaimer: Generated content may reference third-party materials. Users are responsible for verifying rights and usage. See T&C for detail."

Input the instruction e.g.:
summarize the video link

Choose Video Summarizer
agent in agent master

Poffices.AI
Smart GenAI Platform
For Education, Work & Beyond

https://youtu.be/M6i9NtIXr6k?si=l_sGUv7C8SEDpIJg

⚙️ Video Summarizer Web Search Images References ⬆️ ➡️

Disclaimer: Generated content may reference third-party materials. Users are responsible for verifying rights and usage. See [T&C](#) for detail.

Summarize the online video by the link

Video Summarizer

Good afternoon, **Alan Lam**!

Update briefing on your request:

The request you submitted: "https://youtu.be/M6i9NtIXr6k?si=L_sGUv7C8SEDplJg". **Video Summarizer** (Agent **654 (video-link-summarizer)**) is managing this request.

Your request is processing against the set criteria, with the response arriving shortly after completion.

Time of preparation:

0.9s

Time of completion:

3,265.5s

這段視頻主要闡述了在數字時代下推動教育轉型和發展的策略與願景。重點如下：

1. 配合國家科教興國戰略，強調教育、科技與人才一體化發展，通過數字化轉型提升教育質量與競爭力。以「立德樹人」為教育使命，重視培養學生的數字素養和人文關懷並重，深化課程設計、教學與評估的數字教育轉型。

2. 人工智能時代，教師角色越發重要，作為學生學習的工程師，利用人工智能科技快速精準分析學生的強弱項，推動個人化教學方案，因材施教。AI輔助教學在課堂內外多學科推廣，有助學生自主學習和創新，並促進學生身心健康與社交發展。AI技術也能助力有特殊學習需求的學生，打造多元共融教育生態。

3. 學校需做好整體規劃，參考相關學習架構和指南，制定人工智能應用原則，並將AI輔助教學策略納入校本發展計劃，通過持續自評優化發展。同時，善用政府及社會資源，推動多方協作與教育創新，大學與創科界合作，加強教師專業能力和創新科技工具及基建支援中小學，推動AI與教育的深度融合。

4. 家長與學校應建立一致的數字價值觀，攜手培養自主自律的數碼新一代，強調數字教育不僅是教育科技革新，更是匯聚人類智慧、啟動孩子潛能的關鍵。整體呈現「數字教育 你我同行」的理念，推動全社會共同參與數字教育發展。

視頻中配合講述，展示了現代科技教學環境、AI應用準則、跨界協作場面及多元化教學活動，強調教育數字化轉型和人工智能的落地實踐，致力培育未來具備創新力及人文關懷的新一代學生。

Summarize the online video by the link

The screenshot shows the Poffices.AI website interface. At the top, there are navigation icons on the left and a 'Language' selector and user profile 'Alan Lam' on the right. The main heading 'Poffices.AI' is in large, bubbly orange letters, with the subtitle 'Smart GenAI Platform For Education, Work & Beyond' below it. A central input box contains the YouTube link 'https://youtu.be/gfcpHadJvCc?si=5Yh7Tmjn_vf7RTcU'. Below this link are four buttons: 'Video Summarizer' (highlighted with a red box and an annotation), 'Web Search', 'Images', and 'References'. To the left of the 'Video Summarizer' button is a gear icon. To the right are an upload icon and a right arrow icon. A disclaimer at the bottom reads: 'Disclaimer: Generated content may reference third-party materials. Users are responsible for verifying rights and usage. See [T&C](#) for detail.'

Input the instruction e.g.:
summarize the video link

Choose Video Summarizer
agent in agent master

https://youtu.be/gfcpHadJvCc?si=5Yh7Tmjn_vf7RTcU

Video Summarizer Web Search Images References

Disclaimer: Generated content may reference third-party materials. Users are responsible for verifying rights and usage. See [T&C](#) for detail.

Summarize the online video by the link

Video Summarizer

Good morning, misi0202!

Collaborative update on your request:

Your request input: "https://youtu.be/gfcpHadJvCc". Video Summarizer (Agent 654 (video-link-summarizer)) is leading this work.

The output is being put together based on the specifications and will roll out shortly after it's finalized.

Time of preparation: **0.7s** Time of completion: **1,711.4s**

這段影片節目《AI大講堂》由方健儀主持，邀請了從事人工智能（AI）研發超過20年的林曉鋒教授Alan作嘉賓，深入淺出地分享了AI的發展、跨學科特性及應用。以下是主要內容總結：

1. AI的跨學科及廣泛應用

Alan談到自己學習控制學背景，從早期研發AI程式開始，AI涵蓋軟硬件與系統，並強調AI並非限於電腦科學，文科背景者亦能善用AI。科技進步至生成式人工智能，能生成文字、圖片、語音甚至視頻，顯著改變各行各業。

2. AI在日常與專業領域的具體應用

- **體育運動**：利用AI分析運動員動作、擊球次數和位置，替代教練花大量時間看影片回播，提升訓練效率。
- **物流與智慧城市**：AI分析全球物流數據，優化貨物運輸路線與時間安排，提升供應鏈管理效率。智慧城市中共享單車和交通出行管理都受惠於AI技術。
- **旅行預訂**：AI助理能協助自動搜尋和更改機票、酒店行程，省時又省錢。

3. AI助理與未來展望

未來五年，人們將擁有自己專屬的AI助理或代理，這些虛擬專家幫助處理繁瑣執行工作，人們專注於高階創意與決策，這將對人類文明帶來重大突破，減少重複性工作。

4. 推廣AI教育與心態調適

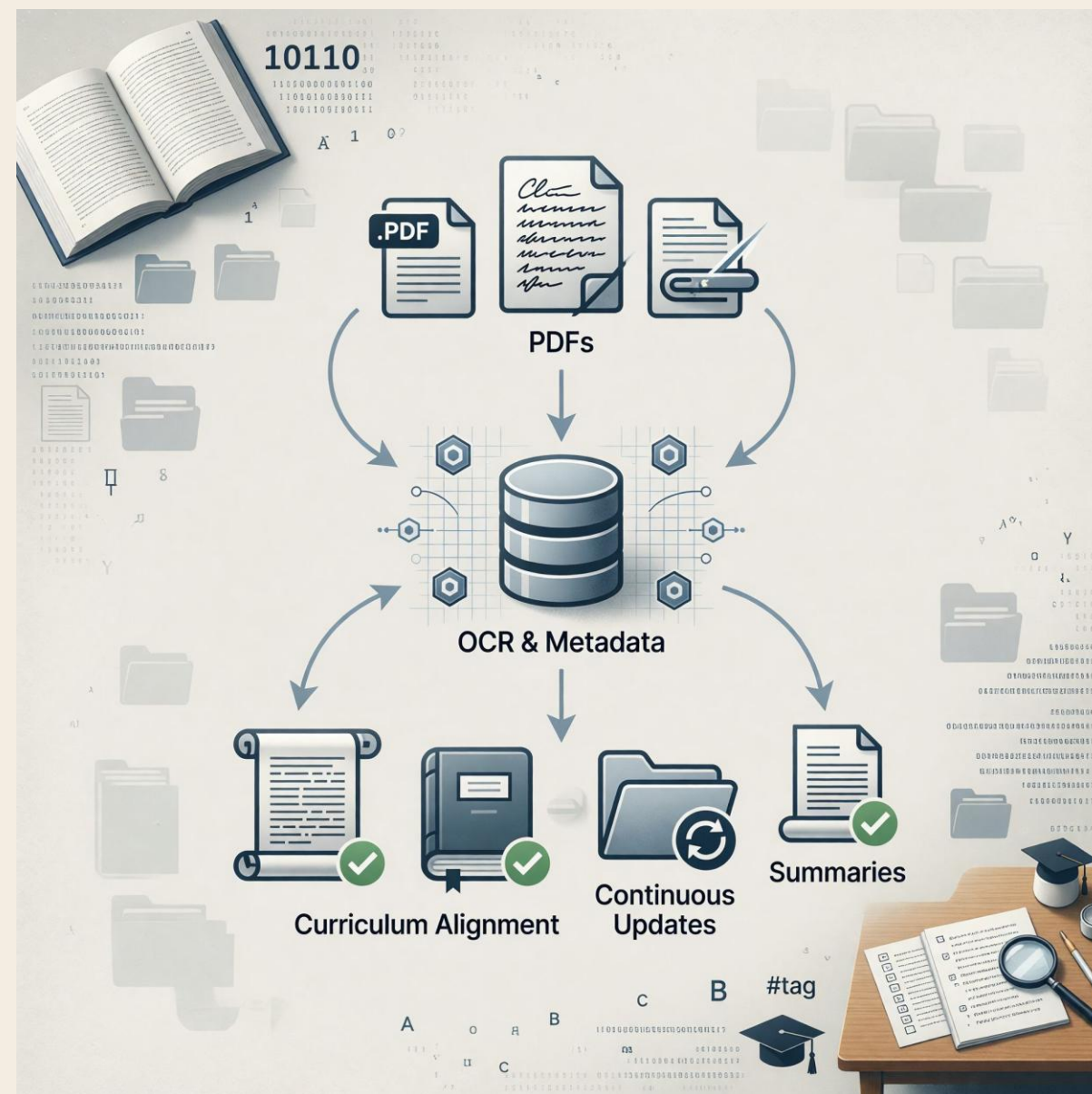
Alan強調各種行業和傳統工種（如餐廳侍應、物流工人、健身教練）均可利用AI提升效率，不必擔心AI與自己無關。多所大學積極推動AI教育，讓老師和學生都能掌握和善用AI，面對時代挑戰。

5. 親民的AI入門方法

建議大眾從免費的AI工具開始點滴使用，逐步改善生活，無需過分擔心成本，人人都能擁有自己的「私人辦公室」。

Knowledge DB Builder for Digitalizing Files and Summary

- Convert diverse digital assets (PDFs, handwritten notes, scanned documents) into searchable databases.
- Utilize OCR and metadata extraction to enhance file categorization and retrieval.
- Provide automatic summaries for large volumes of educational content to support research.
- Align digitalized knowledge base with curriculum frameworks for easy lesson integration.
- Enable continual updates reflecting newly added files and educational resources.



Creating Knowledge database using Knowledge DB Builder

The screenshot shows the Poffices.AI interface with several annotations in red boxes and arrows:

- Input the instruction e.g.: Summarize the attached CV for Prof Alan Lam** points to the input field containing the text "Summarize the attached CV for Prof Alan Lam".
- Choose Knowledge DB Builder agent in agent master** points to the "Knowledge DB Builder" button in the agent selection row.
- Upload file** points to the "Upload file" button in the file selection row.
- The file selection row shows a file named "Alan's CV 2026 (English) V2.7.docx" with a close button (X).

The interface also features a top navigation bar with icons for home, history, and database, a "Language" dropdown, and a user profile for "Alan Lam". The background is a stylized illustration of people working at computers with circuit-like patterns.

Disclaimer: Generated content may reference third-party materials. Users are responsible for verifying rights and usage. See [T&C](#) for detail.

Select Knowledge DB Builder Agent in Agent Master

Settings

General

Agent Master

Digital Assets

Web Search

Agent Master Settings

knowledge

Found 1 agents in 1 offices

Education and Training Office

(1/9 selected)

Knowledge DB Builder

x1

Selected Agents

1/10

1 Knowledge DB Builder

x

Clear All

Cancel

Apply Settings

Watch tour

File uploaded in Poffices.ai



Knowledge DB Builder

Good

Time of preparation: 0.4s

Preparing your document...
It approximately takes 2 minutes.

Files Uploaded

Files have been uploaded. Processing may take longer than usual — please wait while we complete the extraction.

Got it (5)

⚠ The presence of images or references in the result depends on (1) the document type, (2) the web search results and (3) the subscription plan limitations.

⚠ Disclaimer: Generated content may reference third-party materials. Users are responsible for verifying rights and usage. See [T&C](#) for detail.



File has been summarized and stored in Digital Asset



Knowledge DB Builder

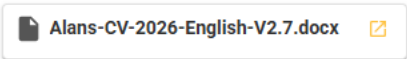
Good morning, Alan Lam!

I'm providing a detailed analysis of your request:

The comprehensive request involves: "Summarize the attached CV for Prof Alan Lam". Knowledge DB Builder (Agent 989 (knowledge-db-builder)) is responsible for this comprehensive analysis and execution.

The output framework will focus on these critical areas: Curriculum Vitae, Prof Alan Lam, Alan Hiu-Fung Lam, academic profile, education, honours and awards, teaching experience, industrial services, academic affiliation, publications, summary, 履歷, 簡歷, 教育背景, 榮譽獎項, 教學經驗, 產業服務, 學術職務, 著作, 總結. This comprehensive approach ensures thorough coverage of all required aspects.

Response generation is now running with the required parameters, and the output will appear as soon as it's done.



Time of preparation: 0.8s Time of completion: 104.7s

Summary of CV for Prof Alan Lam

Introduction

Ir Prof Alan Hiu-Fung Lam, JP, is a distinguished engineer and academic, serving as an Adjunct Professor at the City University of Hong Kong (CityUHK), The Chinese University of Hong Kong (CUHK), and The Hong Kong Polytechnic University (PolyU). In 2015, he was recognized as one of Hong Kong's Ten Outstanding Young Persons. Prof Lam is the Founder and Chairman of Sengital Group Ltd, which includes subsidiaries such as Sengital Ltd, SenMedia Ltd, and HK R&D Ltd. He is also the Chief Executive Officer of Gravity Capital Partners Company Ltd. His professional and entrepreneurial activities center on innovation, technology development, and startup investments, particularly in the fields of AI, IoT, and generative AI.

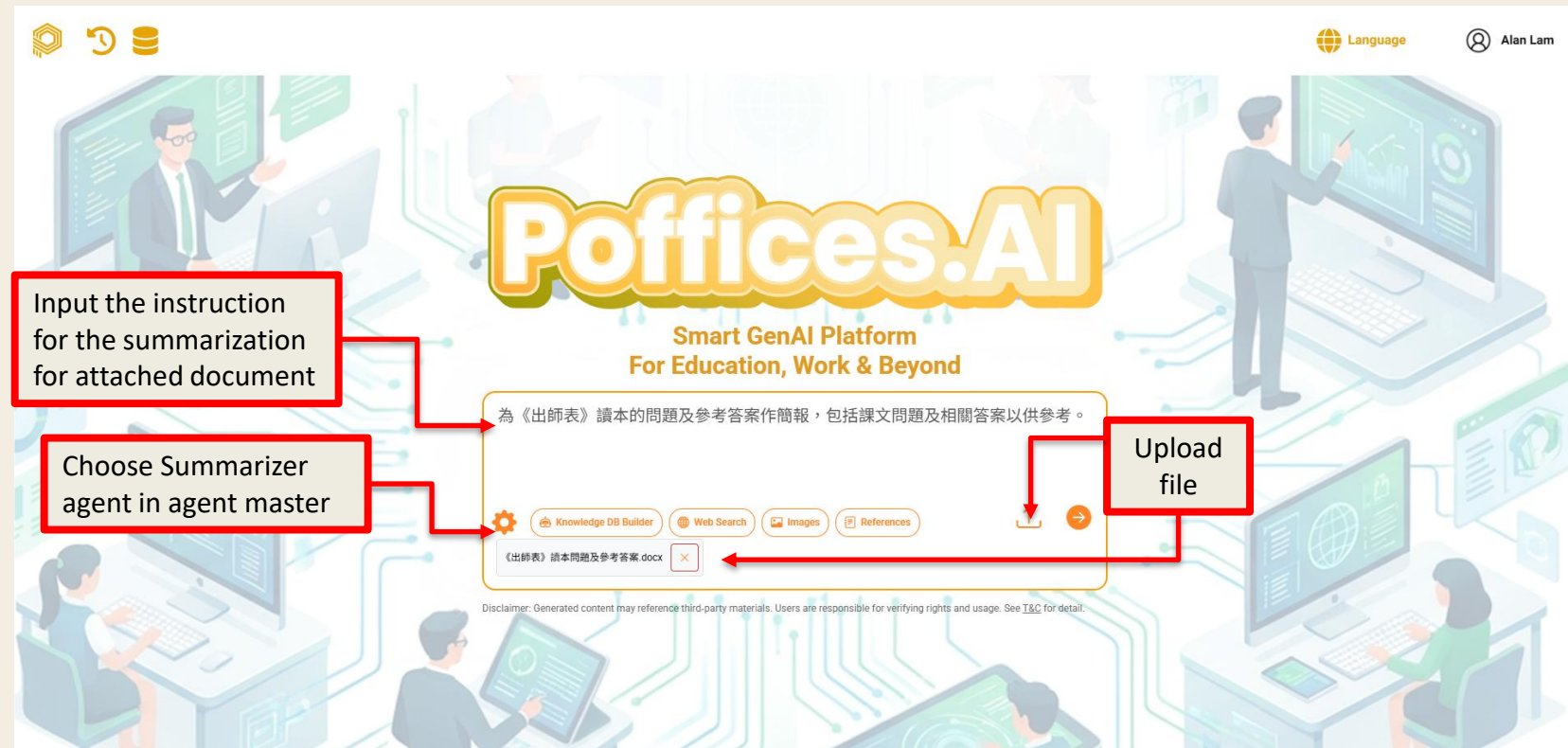


File has been summarized and stored in Digital Asset

 Alans-CV-2026-English-V2.7.docx 67.61 KB 4 pages 17 blocks 21,284 chars Success Related Document: Go to	 18/07/2026 10:30 pm
 20260524-GenAI-Technologies-in-Biomedical-Applications.pdf 7.20 MB 165 pages 1486 blocks 227,615 chars Success Related Document: Go to	 18/07/2026 08:12 am
 An-AIoT-LoRaWAN-Control-System-with-Compression-and-Image-Recovery-Algorithm-CIRA-for-Extreme-Weathe.pdf 39.75 MB 11 pages 116 blocks 47,714 chars Success Related Document: Go to	 06/06/2026 09:41 am
 20260530_hk-g_System-Workflow-Design-for-GenAI-Assessment-Agent-in-Educational-Applications.docx 15.70 MB 11 pages 110 blocks 19,130 chars Success Used in 3 documents	 30/05/2026 08:33 am
 LN12-Future-Trends-of-Applied-Artificial-Intelligence-in-Biomedical-and-Healthcare-Applications.pptx 3.64 MB 8 pages 31 blocks 2,197 chars Success Related Document: Go to	 30/05/2026 08:31 am
 20260529_hk-g_System-Workflow-Design-for-GenAI-Remote-Sensing-Analyzer-Agent-Across-Multiple-Applications.docx 24.52 MB 13 pages 87 blocks 19,782 chars Success Related Document: Go to	 30/05/2026 08:03 am

Practical Exercise

1. Keep this note confidential. You must NOT share to others or release to public.
2. Login <https://poffices.ai/>
3. Upload an example of the [teaching material](#) (in docx) from [hkedcity](#), then Follow the above steps to try the digital assets mode using Knowledge DB Builder
4. Discuss your findings



File has been summarized and stored in Digital Asset

Knowledge DB Builder

Good morning, Alan Lam!

I'm pleased to provide you with an executive briefing on your request:

You have requested: "為《出師表》讀本的問題及參考答案作簡報，包括課文問題及相關答案以供參考。". Knowledge DB Builder (Agent 989 (knowledge-db-builder)) is leading this initiative.

The output specifications are as follows: The document will be named "《出師表》讀本問題及參考答案簡報", it will be formatted as a/an **Educational Document**, written in 繁體中文, following the ##課文概要##問題彙整##參考答案##簡報總結 structure.

Key focus areas include: Chushi Biao, presentation, questions and answers, classroom materials, 出師表, 簡報, 課文問題, 參考答案. These elements will drive our content development and ensure comprehensive coverage.

Your request is being processed, and the response will be delivered shortly after completion.

《出師表》讀本問題及參考答案.docx

15 KB



Time of preparation: 0.8s

Time of completion: 36.9s

《出師表》讀本問題及參考答案簡報

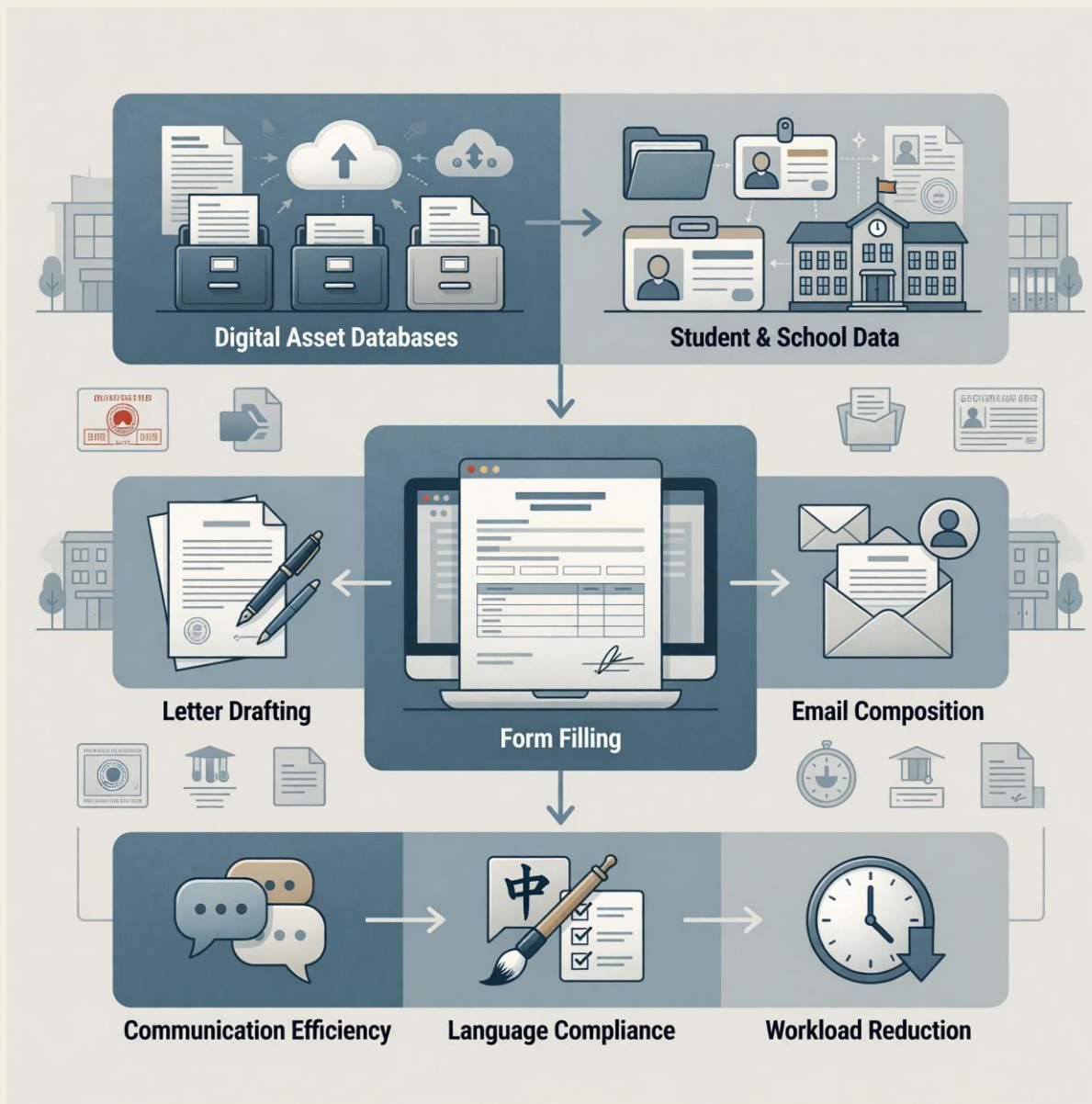
課文概要

《出師表》是諸葛亮在出師北伐前，向後主劉禪所上的一篇表章。全文展現了諸葛亮對國家和先帝的忠誠，以及對後主治理國家的一番諄諄教誨。文章強調諸葛亮鞠躬盡瘁、死而後已的精神，亦表露出他渴望興復漢室、平定內外亂局的決心。內容中提出對劉禪的忠告，包括廣納言路、秉公辦事及親賢遠佞等治國方針，也詳細說明北伐的背景與目的，充分反映當時蜀漢政局與軍事策略的深度考量。

問題彙整

一．諸葛亮在「出師表」中向劉禪提出哪些忠告？請用自己的文句作答。

Form Filling, Letter and Email Agents



1) Draft an application letter for Prof Alan Lam for the Adjunct Professor of CityUHK EE Department :

In agent master, choose job application letter (make sure the CV has been uploaded and enable digital asset)

- Input: **Write an application letter (with Prof Alan Lam's signature) to CityUHK for the position of Adjunct Professor for part-time teaching for post-graduate course for Department of EE based on the CV of Prof Alan Lam**
- Output: https://poffices.ai/generation-history?share_id=gt_6a5be576c653c

2) Draft an application letter for Prof Alan Lam for the Adjunct Professor of CityUHK EE Department :

- In agent master, choose agent finder (make sure the CV has been uploaded and enable digital asset)
- Input: **Write an application letter (with Prof Alan Lam's signature) to CityUHK for the position of Adjunct Professor for part-time teaching for post-graduate course for Department of EE based on the CV of Prof Alan Lam**
- Output: https://poffices.ai/generation-history?share_id=gt_6a5be038c706a
- Note: Agent finder chose General Agent

3) Fill in the employment form for CityUHK for adjunct professor :

- In agent master, choose knowledge db builder (make sure the CV has been uploaded and enable digital asset)
- Upload file: **Newform.pdf**
- Input: **Fill in the attached employment form from CityUHK for the position of Adjunct Professor for part-time teaching for post-graduate course for Department of EE and BME based on the CV of Prof Alan Lam**
- Output: https://poffices.ai/generation-history?share_id=gt_6a5b8f7d27b01

Draft an application letter by Job Application Letter Agent

Job Application Letter

Good morning, Alan Lam!

Here's a concise summary of the request:

Your request: "Handle the following three tasks for Prof Alan Lam: 1) Fill in the employment form (Newform.pdf) from CityUHK for the position of Adjunct Professor for part-time teaching for post-graduate course for Department of EE based on the CV of Prof Alan Lam; 2) Write an application letter (with Prof Alan Lam's signature) for the above position; 3) Write an email to send to CityUHK HR department to submit the application form and job application letter.". Assigned to Job Application Letter (Agent 96 (jobletter)).

Specifications: The document will be named "Application Letter from Prof Alan Lam for Adjunct Professor Position", it will be formatted as a/an Letter, written in English, following the Application Letter from Prof Alan Lam for Adjunct Professor Position structure.

Key topics: Application Letter from Prof Alan Lam for Adjunct Professor Position. These will form the content backbone.

Work has begun, and the response will be delivered soon.

Time of preparation: 0.9s Time of completion: 24.7s

Application Letter from Prof Alan Lam for Adjunct Professor Position

Dear Hiring Committee,

I am writing to express my enthusiastic interest in the position of Adjunct Professor for part-time teaching in the Department of Electrical Engineering at City University of Hong Kong, as recently advertised. With extensive experience both in academia and industry, I am confident in my ability to contribute effectively to the post-graduate programs, particularly in areas intersecting electrical engineering, innovation, and technology entrepreneurship.

As an adjunct professor at leading local universities including CityU, CUHK, and PolyU, I have had the privilege to supervise PhD research and teach advanced topics such as Artificial Intelligence, Internet of Things, and innovation-driven startup courses. My academic involvement is complemented by over two decades of professional leadership and innovation experience. I founded Sengital Group Ltd in 2004, leading the company to secure numerous technology awards and patents. Currently, I serve as the CEO of Gravity Capital Partners Co. Ltd., a prominent tech-based impact

Draft an application letter by Agent Finder (General Agent)

General

Good morning, **Alan Lam**!

Comprehensive overview of your request:

Request statement: "Write an application letter (with Prof Alan Lam's signature) to CityUHK for the position of Adjunct Professor for part-time teaching for post-graduate course for Department of EE based on the CV of Prof Alan Lam". General (Agent 0 (hk-g)) is overseeing this request.

Defined parameters are: The document will be named "Application Letter for Adjunct Professor Position at CityUHK Department of Electrical Engineering", it will be formatted as a/an Letter, written in English, following the Introduction, Body, Conclusion structure.

Key focus points: Adjunct Professor Position Professional Application Letter. These elements will guide the response and ensure it fulfills the requested objectives.

The response generation has started and is taking shape; the result will be released shortly after completion.

Time of preparation: 1s Time of completion: 20.9s

Application Letter for Adjunct Professor Position at CityUHK Department of Electrical Engineering

City University of Hong Kong
Department of Electrical Engineering
Hong Kong

18 July 2026

Dear Hiring Committee,

I am writing to express my interest in the position of Adjunct Professor for part-time teaching in the postgraduate program at the Department of Electrical Engineering, City University of Hong Kong. With a comprehensive background in electrical engineering scholarship and industry leadership, I am confident in my ability to contribute effectively to your department's academic offerings and research excellence.

Fill in the employment form by Knowledge DB Builder

Knowledge DB Builder

Good morning, Alan Lam!

Allow me to present the details regarding your request:

The request states: "Fill in the attached employment form from CityUHK for the position of Adjunct Professor for part-time teaching for post-graduate course for Department of EE and BME based on the CV of Prof Alan Lam". I have the honor to serve as Knowledge DB Builder, Agent 989 (knowledge-db-builder), in handling this request.

The thematic elements to be addressed are: employment form, adjunct professor, part-time teaching, post-graduate course, Department of Electrical Engineering and Biomedical Engineering, City University of Hong Kong, 聘用表格, 兼職教授, 兼職教學, 研究生課程, 電機及生物醫學工程系, 香港城市大學. These components will ensure the output meets all specified objectives.

Handling of this request has started, and the result will follow shortly after completion.

NewForm.pdf

Time of preparation: 0.8s

Time of completion: 130.1s

Employment Form for Adjunct Professor
Position in Department of EE and BME at
CityUHK

Personal Information

Name in Chinese 中文姓名	林曉鋒
Name in English 英文姓名	Alan Hiu-Fung Lam
Date of Birth (dd/mm/yyyy) 出生日期	(Not provided)

Filling Form and Generating Application Letter and Email

 Language Alan Lam

Agent Master

- Step 1**
Knowledge DB Builder: Employment Form for Adjunct Professor Position at CityUHK Department of EE
##Personal Information, ##Academic Qualifications, ##Employment History, ##Teaching Experience, ##Research Experience, ##Professional Qualifications, ##References
- Step 2**
Job Application Letter: Application Letter from Prof Alan Lam for Adjunct Professor Position
Application Letter from Prof Alan Lam for Adjunct Professor Position
- Step 3**
EDM: Email to CityUHK HR Submitting Application Form and Letter
Email to CityUHK HR Submitting Application Form and Letter
- Step 4**
Integration

Integration

Good morning, Alan Lam!

Collaborative update on your request:

Your request input: "Handle the following three tasks for Prof Alan Lam: 1) Fill in the employment form (Newform.pdf) from CityUHK for the position of Adjunct Professor for part-time teaching for post-graduate course for Department of EE based on the CV of Prof Alan Lam; 2) Write an application letter (with Prof Alan Lam's signature) for the above position; 3) Write an email to send to CityUHK HR department to submit the application form and job application letter.". Integration (Agent 4 (agent-manager-package)) is leading this work.

The output details are: written in **English**.

The output is being put together based on the specifications and will roll out shortly after it's finalized.

Time of preparation: **0.8s** Time of completion: **34.8s**

Fill in the employment form, draft application letter and submission email for CityUHK for adjunct professor :

- In agent master, choose 1) knowledge db builder (make sure the application form has been uploaded), 2) Job Application Letter, 3) EDM
- Upload file: **Newform.pdf**
- Input: **Handle the following three tasks for Prof Alan Lam: 1) Fill in the employment form (Newform.pdf) from CityUHK for the position of Adjunct Professor for part-time teaching for post-graduate course for Department of EE based on the CV of Prof Alan Lam; 2) Write an application letter (with Prof Alan Lam's signature) for the above position; 3) Write an email to send to CityUHK HR department to submit the application form and job application letter.**
- Output: https://poffices.ai/generation-history?share_id=gt_6a5be5b3f049c

Exam Paper Generation for Detailed Questions and Answers

Loading text book and build digital asset

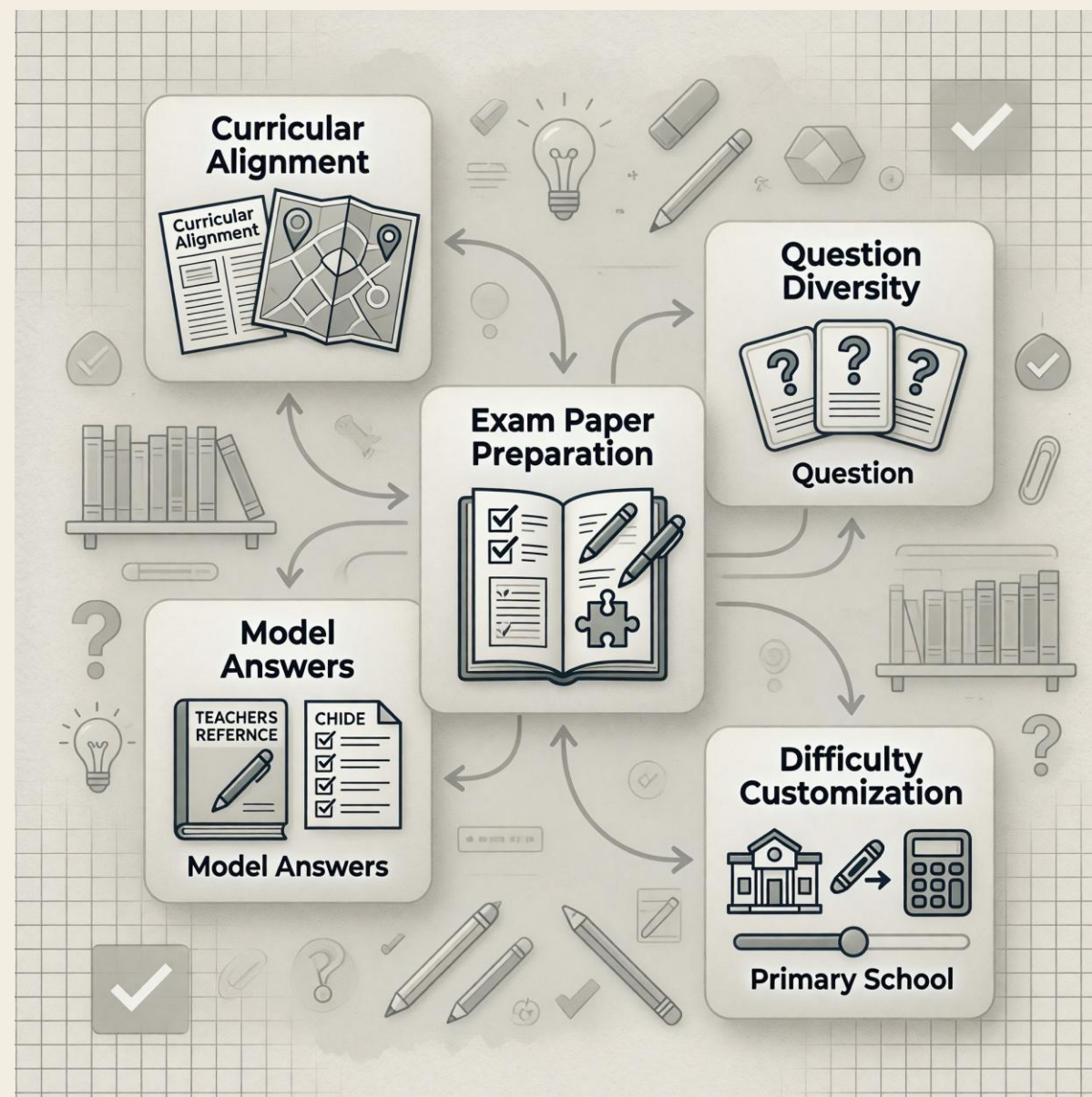
- Choose Knowledge DB Builder agent in agent master
- Upload file: **20260524-GenAI-Technologies-in-Biomedical-Applications.pdf**
- Input: **Summarise the attached book**
- Output: https://poffices.ai/generation-history?share_id=gt_6a5ac4f1ac389

Generate exam paper with 3 topics :

- In agent master, choose Lecture Exam (make sure the textbook has been uploaded)
- Input: **Write an exam paper with 3 questions and detailed answers with marking scheme about TF-IDF, BM25 and Cosine Similarity.**
- Output: https://poffices.ai/generation-history?share_id=gt_6a5beef36ec21

Using multiple agents through Agent Master to generate exam paper with 10 topics:

- Setup: In agent master, clear all selected agents first and then add 10 Lecture Exam agents (make sure the textbook has been uploaded)
- Input and Output: https://poffices.ai/generation-history?share_id=gt_6a5bf74b823b1



Loading text book and build digital asset



Knowledge DB Builder

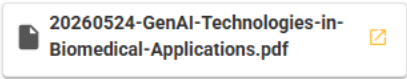
Good morning, Alan Lam!

I'm pleased to provide you with an executive briefing on your request:

You have requested: "Summarise the attached book". Knowledge DB Builder (Agent 989 (knowledge-db-builder)) is leading this initiative.

Key focus areas include: **Generative AI, Biomedical Applications, Large Language Models, Prompt Engineering, GenAI Agents, Agentic RPA, Multi-Agent Systems, Robotic Process Automation, Content Verification, Sentiment Analysis, Retrieval Augmented Generation, Collaborative Multi-Agent RPA, summary, book summary, 總結, 書籍總結.** These elements will drive our content development and ensure comprehensive coverage.

Your request is being processed, and the response will be delivered shortly after completion.



Time of preparation: 0.3s Time of completion: 751.1s

The attached book presents a comprehensive exploration of generative artificial intelligence (AI) technologies tailored for biomedical applications. It systematically covers fundamental AI concepts, including machine learning (ML), deep learning (DL), and large language models (LLMs), emphasizing their transformative roles in healthcare. The foundational chapters delve into natural language processing (NLP) techniques critical for interpreting complex biomedical texts, detailing methods such as tokenization, stemming, n-grams, and advanced embedding models like Word2Vec, which together enable effective data representation for GenAI agents.

Further, the book explicates LLM architectures, focusing on transformers and attention mechanisms that power models such as BERT and GPT, highlighting their applications in clinical decision support, literature mining, and biomedical knowledge extraction. It introduces prompt engineering strategies, including zero-shot and few-shot prompting, chain-of-thought reasoning, and constraint-based methods, to ensure precise and reliable AI outputs in sensitive healthcare contexts.





 Language

 Alan Lam

Lecture Exam

Good morning, Alan Lam!

Comprehensive overview of your request:

Request statement: "Write an exam paper with 3 questions and detailed answers with marking scheme about TF-IDF, BM25 and Cosine Similarity."
Lecture Exam (Agent 38 (lectureexam)) is overseeing this request.

Defined parameters are: The document will be named "Exam Paper: 3 Questions with Detailed Answers and Marking Scheme on TF-IDF, BM25, and Cosine Similarity", it will be formatted as a/an Educational Document, written in English, following the ##Exam Blueprint, ##Question Drafting, ##Answer Key & Marking, ##Quality Review, ##Final Exam Pack structure.

Key focus points: Exam Paper: 3 Questions with Detailed Answers and Marking Scheme on TF-IDF, BM25, and Cosine Similarity. These elements will guide the response and ensure it fulfills the requested objectives.

The response generation has started and is taking shape; the result will be released shortly after completion.

Time of preparation: 1.5s Time of completion: 45.7s

Exam Paper: 3 Questions with Detailed Answers and Marking Scheme on TF-IDF, BM25, and Cosine Similarity

Course: Exam Paper: 3 Questions with Detailed Answers and Marking Scheme on TF-IDF, BM25, and Cosine Similarity
Duration: 240 minutes (4 hours)
Total Marks: 100 points
Level: Professional Master
Author: Alan

Using multiple agents to generate exam paper with 10 topics

Agent Master

Step 1

Lecture Exam: Exam Questions on Tokenization with Step-by-Step Mathematical Solutions Using Real Market Data
##Tokenization Basics, ##Real Market Data for Biomedical Text, ##Mathematical Problem: Token Count and Frequency Calculation, ##Step-by-Step Solution Using Sample Medical Reports

Step 2

Lecture Exam: Exam Questions on TF-IDF with Step-by-Step Mathematical Solutions Using Real Market Data
##TF-IDF Conceptual Framework, ##Biomedical Dataset Term Analysis, ##Mathematical Calculation of TF, IDF, and TF-IDF Values, ##Detailed Step-by-Step Example Using Biomedical Text Corpus

Step 3

Lecture Exam: Exam Questions on BM25 with Step-by-Step Mathematical Solutions Using Real Market Data
##BM25 Ranking Model Theory, ##Biomedical Article Dataset Description, ##Mathematical Derivation of BM25 Scores, ##Stepwise Computation Using Real Biomedical Abstracts

Step 4

Lecture Exam: Exam Questions on CBoW and Skip-gram with Step-by-Step Mathematical Solutions Using Real Market Data
##Continuous Bag of Words (CBoW) Model Explanation, ##Skip-gram Model Description, ##Biomedical Text Corpus for Training, ##Mathematical Illustration of Vector Representations with Examples

Step 5

Lecture Exam: Exam Questions on Cosine Similarity with Step-by-Step Mathematical Solutions Using Real Market Data
##Cosine Similarity Definition, ##Biomedical Document Vectors, ##Mathematical Formula and Calculation of Cosine Similarity, ##Stepwise Example Using Real Patient Records

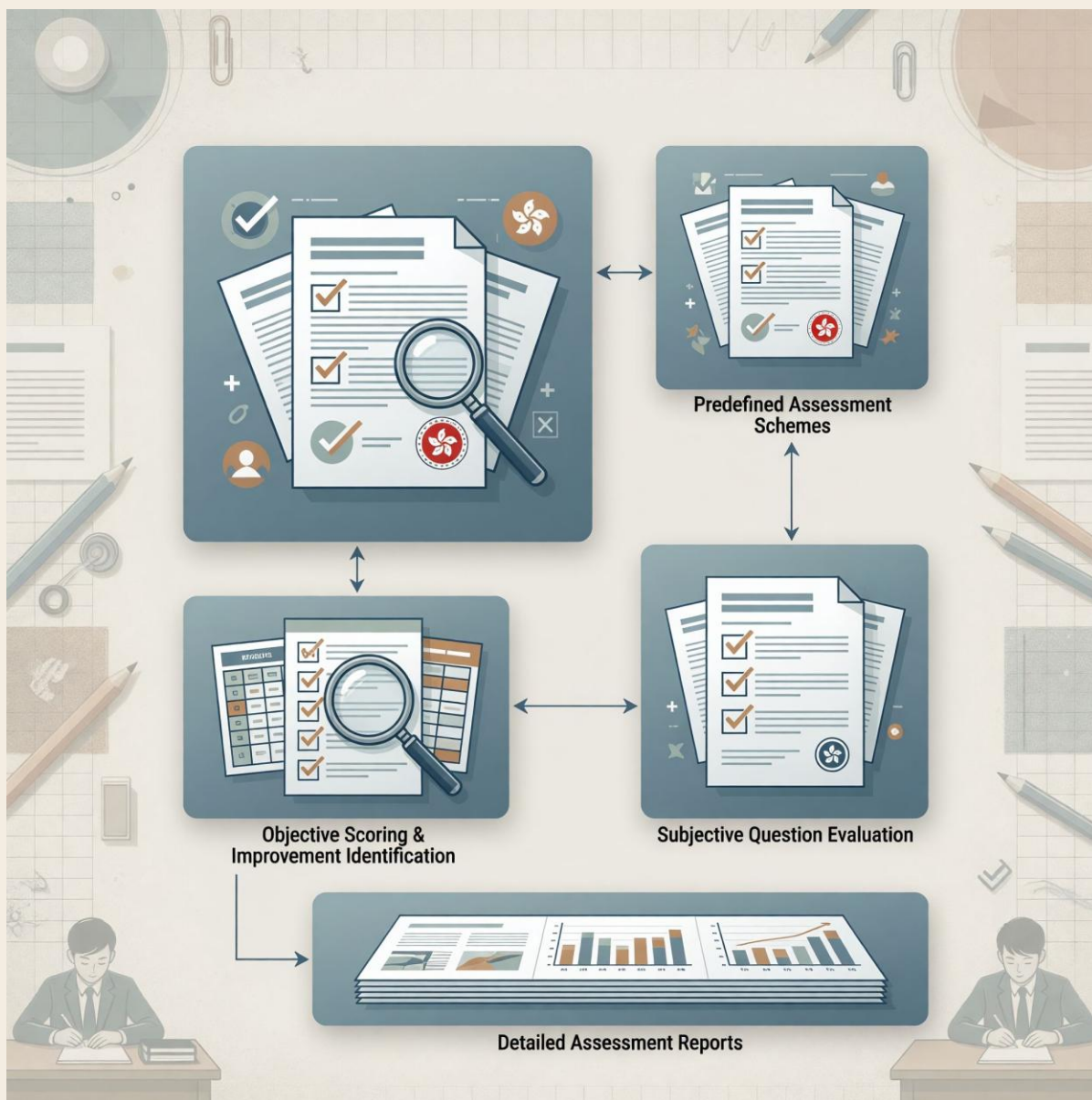
Step 6

Lecture Exam: Exam Questions on Jaccard Similarity with Step-by-Step Mathematical Solutions Using Real Market Data
##Jaccard Similarity Metric, ##Application in Biomedical Data Sets, ##Calculating Jaccard Index with Real Example Sets, ##Step-by-Step Computation Illustrated

Step 7

Lecture Exam: Exam Questions on Latent Semantic Analysis (LSA) with Step-by-Step Mathematical Solutions Using Real Market Data
##Latent Semantic Analysis Fundamentals, ##Biomedical Semantic Data Preparation, ##Matrix Decomposition and SVD Application,

Assessment Agent for Grading Exams



Step 1: Collection of Domain Specific Assessment Scheme

Download the assessment scheme and answer:

https://resources.hkedcity.net/resource_detail.php?rid=1721030752

https://rdsys.edcity.hk/admin_file/32887

Step 2: Building up the Assessment Database

Upload the above file: 《出師表》讀本問題及參考答案.docx

Choose Knowledge DB Builder from Agent Master

Input: 為《出師表》讀本的問題及參考答案作簡報，包括課文問題及相關答案以供參考。

Output: https://poffices.ai/generation-history?share_id=gt_6a5c350274f28

Step 3: Using General Agent to simulate Student's answer

Input the questions from the above file manually

Choose General Agent from Agent Master

Output: https://poffices.ai/generation-history?share_id=gt_6a5c1bee4e15a

Save as docx: **20260719_hk-g_諸葛亮出師表相關問題詳解.docx**

Step 4: Assessment based on the domain specific assessment scheme

Upload the above file: **20260719_hk-g_諸葛亮出師表相關問題詳解.docx**

Choose Knowledge DB Builder from Agent Master

Enable Digital Asset for past 1 month

Input: 請根據"出師表問題參考答案"來批改附上的學生答案及加上分數和評語

Output: https://poffices.ai/generation-history?share_id=gt_6a5c3e5e14cb3



《出師表》讀本問題及參考答案

作者：保良局曹金霖預科書院譚顯宗老師

出版日期：25/07/2011

本資源為《出師表》讀本問題及參考答案，內含課文問題及相關答案以供參考。

資源下載

全部下載

1.  《出師表》讀本問題及參考答案

版權聲明：本教材由保良局曹金霖預科書院譚顯宗老師製作及提供。

作者簡介



保良局曹金霖預科書院譚顯宗老師

關鍵字詞：工作紙 | 練習 | 參考答案 | 讀本問題 | 課文問答 | 會考中文 | 出師表

學習領域：中國語文教育 | 中國語文

學習階段：第四學習階段



 Language

 Alan Lam

Knowledge DB Builder

Good morning, Alan Lam!

I'm pleased to provide you with an executive briefing on your request:

You have requested: "為《出師表》讀本的問題及參考答案作簡報，包括課文問題及相關答案以供參考。". Knowledge DB Builder (Agent 989 (knowledge-db-builder)) is leading this initiative.

Key focus areas include: Chushi Biao, presentation, questions and answers, classroom materials, 出師表, 簡報, 課文問題, 參考答案. These elements will drive our content development and ensure comprehensive coverage.

Your request is being processed, and the response will be delivered shortly after completion.



Time of preparation: 0.8s Time of completion: 36.9s

《出師表》讀本問題及參考答案簡報

課文概要

《出師表》是諸葛亮在出師北伐前，向後主劉禪所上的一篇表章。全文展現了諸葛亮對國家和先帝的忠誠，以及對後主治理國家的一番諄諄教誨。文章強調諸葛亮鞠躬盡瘁、死而後已的精神，亦表露出他渴望興復漢室、平定內外亂局的決心。內容中提出對劉禪的忠告，包括廣納言路、秉公辦事及親賢遠佞等治國方針，也詳細說明北伐的背景與目的，充分反映當時蜀漢政局與軍事策略的深度考量。

問題彙整

一、諸葛亮在「出師表」中向劉禪提出哪些忠告？請用自己的文句作答。



Using General Agent to simulate Student's answer



General

Good morning, Alan Lam!

Here is a briefing regarding your request:

Request details: ****請詳細作答以下問題：**

一．諸葛亮在「出師表」中向劉禪提出哪些忠告？試用自己的文句作答。

二．諸葛亮是歷史上著名的忠臣，試就「出師表」一文，扼要指出他怎樣忠貞為國。

三．諸葛亮在出師前，為什麼要上表後主劉禪？

四．試據《出師表》的內容，說出諸葛亮出師北伐的原因。". General (Agent 0 (hk-g)**) is coordinating this request.

Output specifications include: The document will be named "諸葛亮出師表相關問題詳解", it will be formatted as a/an **Exam Paper**, written in 繁體中文, following the ##諸葛亮在出師表中對劉禪的忠告,##諸葛亮《出師表》中展現的忠誠精神,##諸葛亮上表後主劉禪的原因,##諸葛亮出師北伐的理由 structure.

Primary content areas: 諸葛亮出師表相關問題詳解. These areas will guide our research and content development approach.

The response build is active and nearing completion, and the result will be made available shortly.

Time of preparation: 0.3s

Time of completion: 11.3s

諸葛亮出師表相關問題詳解

一．諸葛亮在「出師表」中向劉禪提出哪些忠告？試用自己的文句作答。

諸葛亮在「出師表」中勸勉劉禪要勤於聽取賢臣良將的意見，不可輕信小人，並且應該恪守祖宗之法，持續發揚政權。此



Knowledge DB Builder

Good morning, Alan Lam!

Quick status update on your request:

Request received: "請根據"出師表問題參考答案"來批改附上的學生答案及加上分數和評語". Agent Knowledge DB Builder (Agent 989 (knowledge-db-builder)) is handling the execution.

Content themes: Zhuge Liang, Chu Shi Biao, answer correction, grading, feedback, 諸葛亮, 出師表, 批改, 學生答案, 分數, 評語. These topics will shape the output structure and content flow.

Processing has started with the given parameters, and the result will be available shortly.



Time of preparation: 0.8s Time of completion: 67.6s

出師表問題學生答案批改與評語

本評語依據「出師表問題參考答案」對學生提交的作答進行批改，並根據答案的內容完整性、準確性及表達流暢度評分，同時提出改進建議以促進學生理解與表達能力提升。以下依問題順序逐一評閱。

一．諸葛亮在「出師表」中向劉禪提出哪些忠告？（滿分 10 分）

學生答案評分：8 分

學生能正確指出諸葛亮勸劉禪聽取賢臣良將意見、恪守祖宗法度、體恤百姓疾苦及勤政愛民，內容貼近原文精神，表達清晰。但部分忠告略顯籠統，缺少更具體的例證或深入說明，例如未提及“不可輕忽忠言”及“保持警醒”的細節。用詞尚需增添生動性及論述層次。

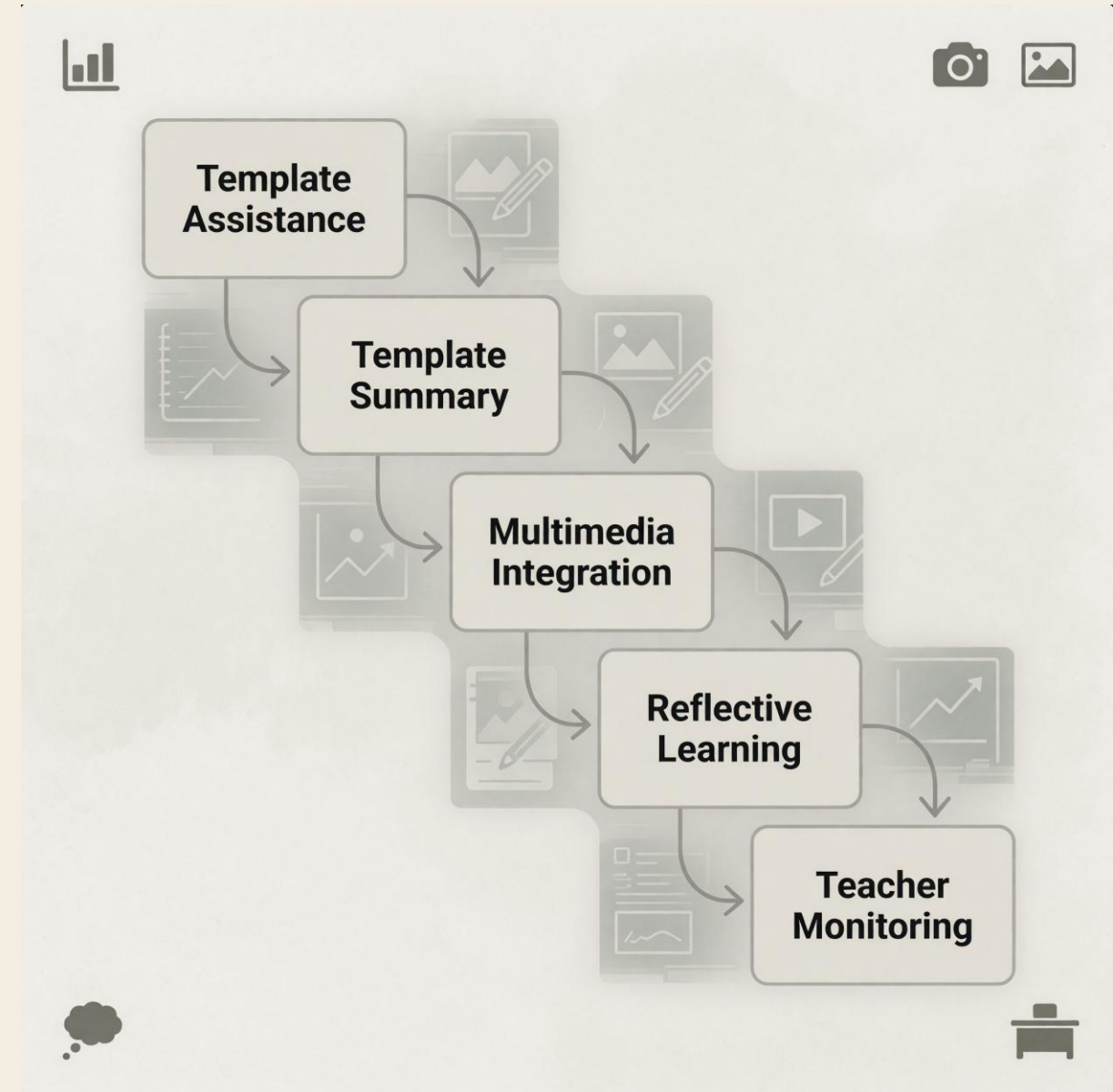
Project Report Agent for Student Progress

1) Reporting the project progress by students

- Choose Daily Outcome Reporter agent in agent master
- Input the project progress by students
- Output: Summarized project progress

Example:

- https://poffices.ai/generation-history?share_id=gt_6a5a217d1f1dc
- https://poffices.ai/generation-history?share_id=gt_6a5a25869f086
- https://poffices.ai/generation-history?share_id=gt_6a5a275716be2



Reporting the project progress by students

Daily Outcome Reporter

Good morning, Alan CityUEE!

Quick status update on your request:

Request received: "**For the daily operation: 1) reviewed all daily reports from PhD candidates, MSc Students and FYP students. The AIO team daily outcome reports have also been reviewed; 2) briefed Fred about the arrangement of the assessment agent, knowledge db builder, project report agent and report summarizer agent; 3) Shared with Joe about the management skill for the team formation, project management, and AIO project review; 4) Briefed Mouse about the agent training mode in creator studio and target to get first version by end of today.

For the weekday work: 1) Conduct three training for PolyU teams for project presentation; 2) Lunch meeting with Albert and sign the SHA; 3) Complete the lecture 3 for IFL at CityUHK for the GenAI Agent Training Workshop and received very positive feedback.

For the evening development: 1) Testing for the note studio with the new function about connection with Document Studio; 2) Testing for project report agent and report summarizer agent; 3) Getting the exam paper and answer for the testing of assessment agent; 4) Trying to test the knowledge db agent and found the release of the limit of the file upload from 5MB to 100MB.". **Agent** Daily Outcome Reporter (**Agent** 690 (daily-outcome-reporter)**) is handling the execution.

Processing has started with the given parameters, and the result will be available shortly.

Time of preparation: **0.9s** Time of completion: **12.3s**

- **Date:** 2026-07-17
- **Researcher:** Alan Lam
- **Summary:** Significant progress in team training, project briefings, and agent development with successful testing milestones and positive workshop feedback.
- **Outcome:**
 - [Team Management] Reviewed daily outcome reports from PhD, MSc, FYP, and AIO teams; briefed key members on agent roles and project management skills.
 - [PolyU Project Presentation Training] Conducted three training sessions for PolyU teams on project presentations.
 - [GenAI Agent Training Workshop] Completed Lecture 3 at CityUHK for GenAI Agent Training Workshop with very positive feedback

Reporting the project progress by students

Daily Outcome Reporter

Good morning, Alan_gravitycp!

Here is a briefing regarding your request:

Request details: "**1) Completed the board meeting about the application of retirement of the CEO.
2) Completed the Briefing about the investees.
3) Following up the service contract completion.
4) Scheduling the meeting for the terms and conditions about the outstanding items.". Daily Outcome Reporter (**Agent** 690 (daily-outcome-reporter)**) is coordinating this request.

The response build is active and nearing completion, and the result will be made available shortly.

Time of preparation: 0.8s

Time of completion: 9.6s

- **Date:** 2026-07-17
- **Researcher:** Alan Lam
- **Summary:** Completed key meetings regarding CEO retirement and investees while progressing contract and terms scheduling.
- **Outcome:**
 - [Corporate Governance and Investment Management] Completed the board meeting on the CEO retirement application and the briefing on investees.
 - [Contract Management] Continued follow-up on the service contract completion.
 - [Contract Management] Scheduled the meeting to discuss terms and conditions concerning outstanding items.
- **Next Steps:**
 - [Contract Management] (**[Status: In Progress]**) -> Finalize discussions on terms and conditions for the outstanding contract items.

Reporting the project progress by students

Daily Outcome Reporter

Good morning, **Alan Lam**!

Quick status update on your request:

Request received: "(**1) Press release of the Launching of the Enterprise Innovation Hub ceremony.

2) Reviewed the Enterprise Innovation Hub website.

3) Followed up the claims of the Enterprise Innovation Hub Event expense.

4) Planning the fundraising for Enterprise Innovation Hub.

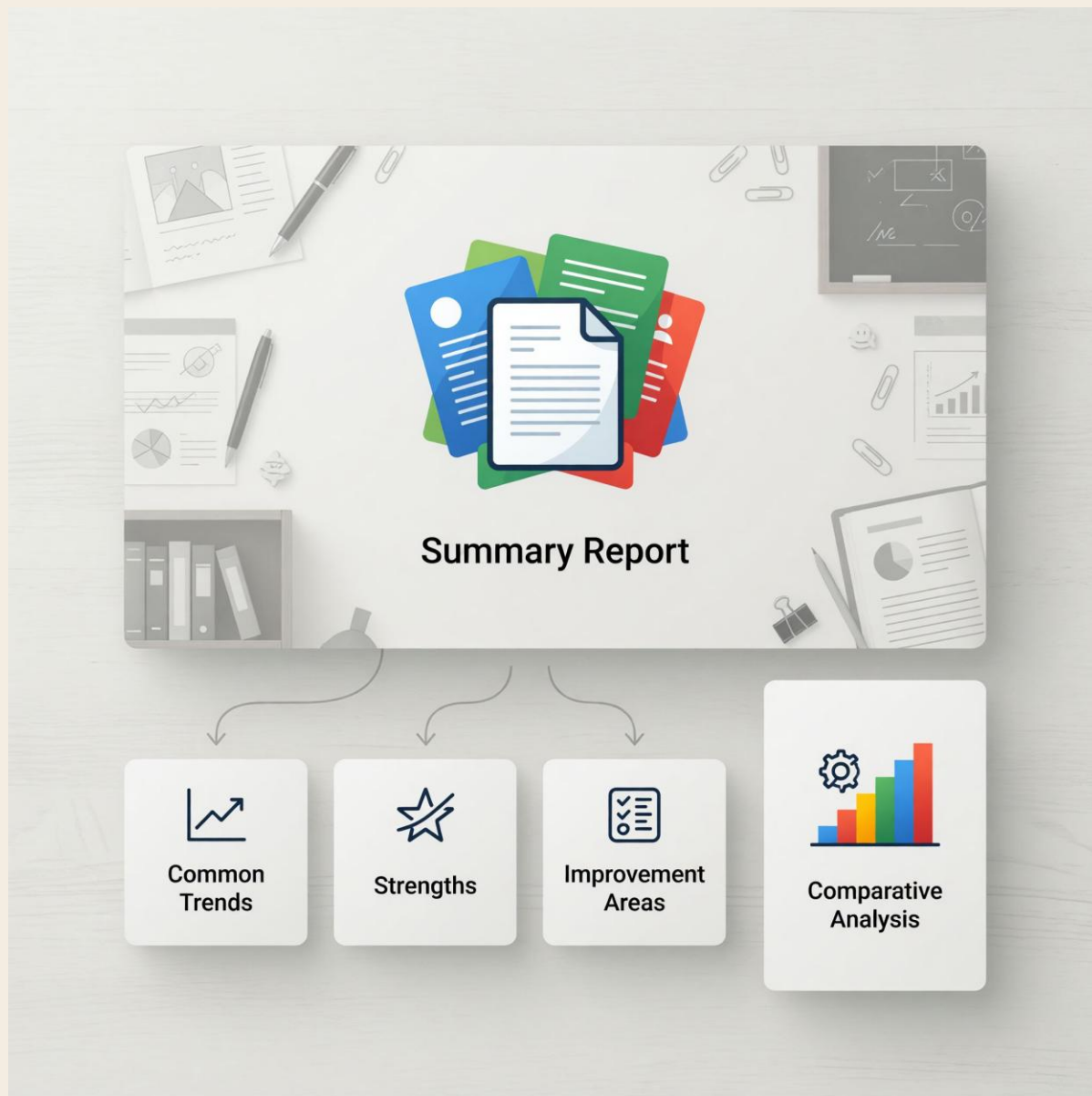
5) Scheduling a meeting the DO about the fundraising procedure for Enterprise Innovation Hub.". **Agent** Daily Outcome Reporter (**Agent** 690 (daily-outcome-reporter)**) is handling the execution.

Processing has started with the given parameters, and the result will be available shortly.

Time of preparation: **1s** Time of completion: **11.2s**

- **Date:** 2026-07-17
- **Researcher:** Alan Lam
- **Summary:** Completed key event communications and website review for the Enterprise Innovation Hub while initiating fundraising planning and coordination.
- **Outcome:**
 - [Enterprise Innovation Hub] Released the press announcement for the Launching Ceremony.
 - [Enterprise Innovation Hub] Completed the review of the official website.
 - [Enterprise Innovation Hub] Followed up on the event expense claims.
- **Next Steps:**
 - [Enterprise Innovation Hub] ([Status: In Progress]) -> Plan the fundraising strategy.
 - [Enterprise Innovation Hub] ([Status: In Progress]) -> Schedule a meeting with the Director of Operations regarding the fundraising procedure.

Report Review Agent for Summarizing Student Reports



2) Reviewing the project progress of all students by teachers

- Choose Report Summarizer agent in agent master
- Input the command such as How's the progress of all members, What are the Alan Lam's progress today, and etc
- Output: Summarized progress progress from all students or particular student

Example:

- https://poffices.ai/generation-history?share_id=gt_6a5a29702ef68

Reviewing the project progress of all students by teachers



Report Summarizer

Good afternoon, **Alan Lam**!

Comprehensive overview of your request:

Request statement: **"What are Alan Lam's progress today?"**. **Report Summarizer** (Agent **691 (report-summarizer)**) is overseeing this request.

The response generation has started and is taking shape; the result will be released shortly after completion.

Time of preparation: **0.9s** Time of completion: **65.2s**

Found report records for 3 researcher(s) across 1 day(s).

1. Alan Lam (ID: 18275)

[2026-07-17]

• **Outcomes:**

1. **[[Team Management]]** Reviewed daily outcome reports from PhD, MSc, FYP, and AIO teams; briefed key members on agent roles and project management skills.
2. **[[PolyU Project Presentation Training]]** Conducted three training sessions for PolyU teams on project presentations.
3. **[[GenAI Agent Training Workshop]]** Completed Lecture 3 at CityUHK for GenAI Agent Training Workshop with very positive feedback.
4. **[[Studio]]** Tested new Document Studio connection feature successfully.
5. **[[Project Report Agent and Report Summarizer Agent]]** Conducted functionality testing.
6. **[[Assessment Agent]]** Retrieved exam paper and answer sets for testing.
7. **[[Knowledge Database Agent]]** Tested with the updated file upload limit increased from 5MB to 100MB.

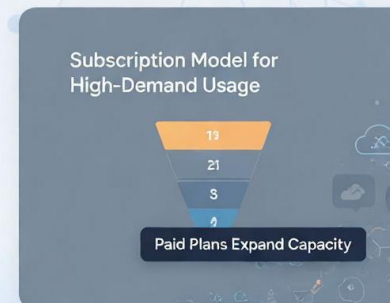
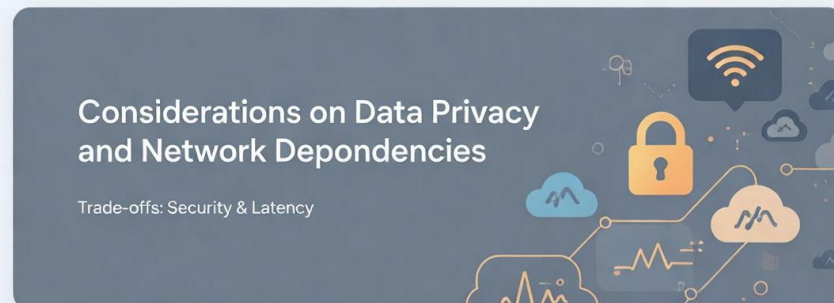


Introduction to GenAI Educational Agents Solution: Functionalities Overview

Ir Prof Alan Lam, JP



Public Cloud GenAI Agent Platform



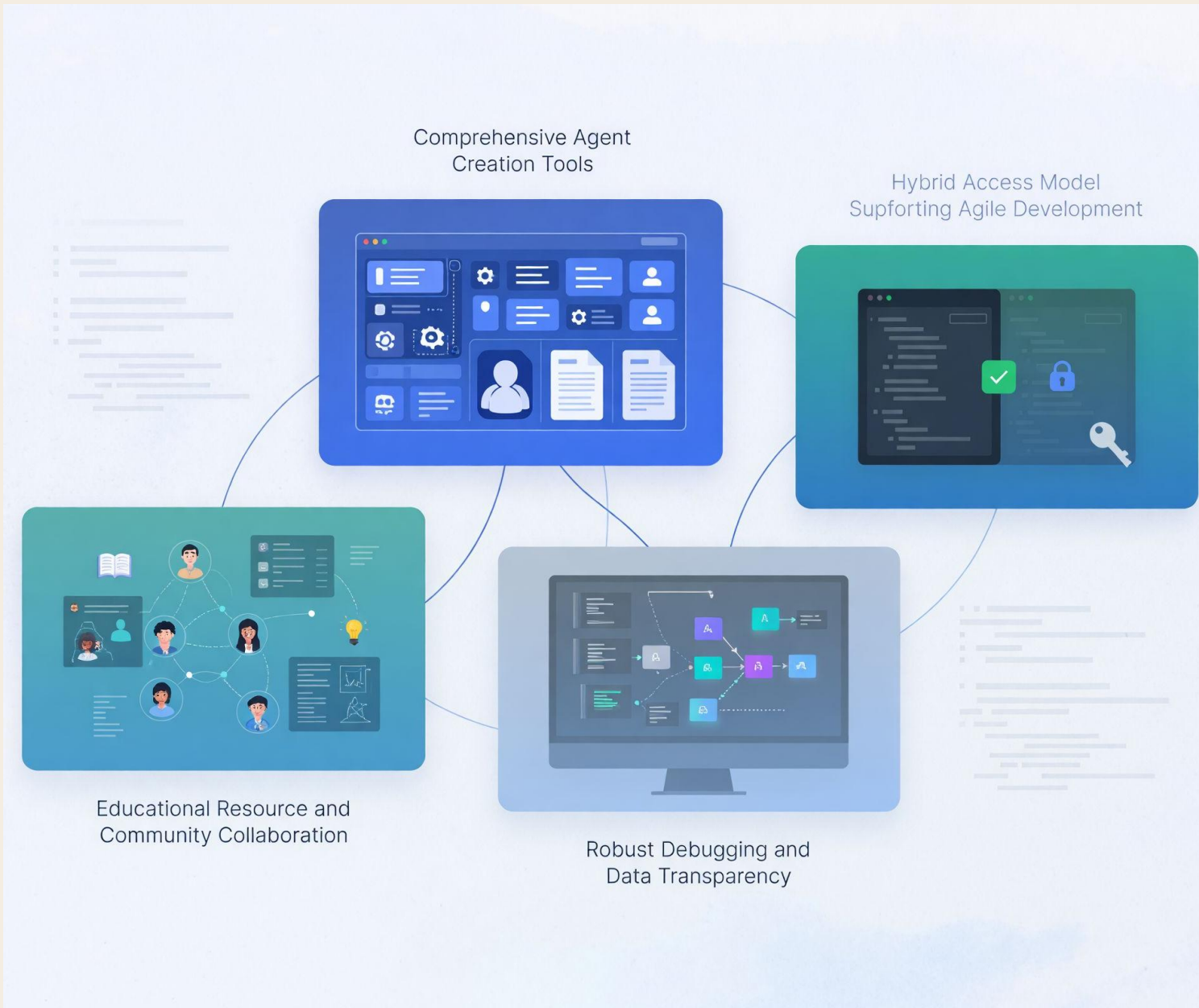
- Poffices.ai offers 100+ GenAI agents for educational, professional, and creative applications.
- Users start with 3000 free credits weekly; paid plans provide extended capacity for heavy use.
- Developer access to Creator Studio enables agent customization and creation.
- Platform uses third-party LLMs on public cloud, raising potential data privacy concerns.
- Enables scalable, accessible AI with trade-offs in latency, cost, and data control.

Public Cloud GenAI Agent Platform

Poffices with 100+ GenAI Agents



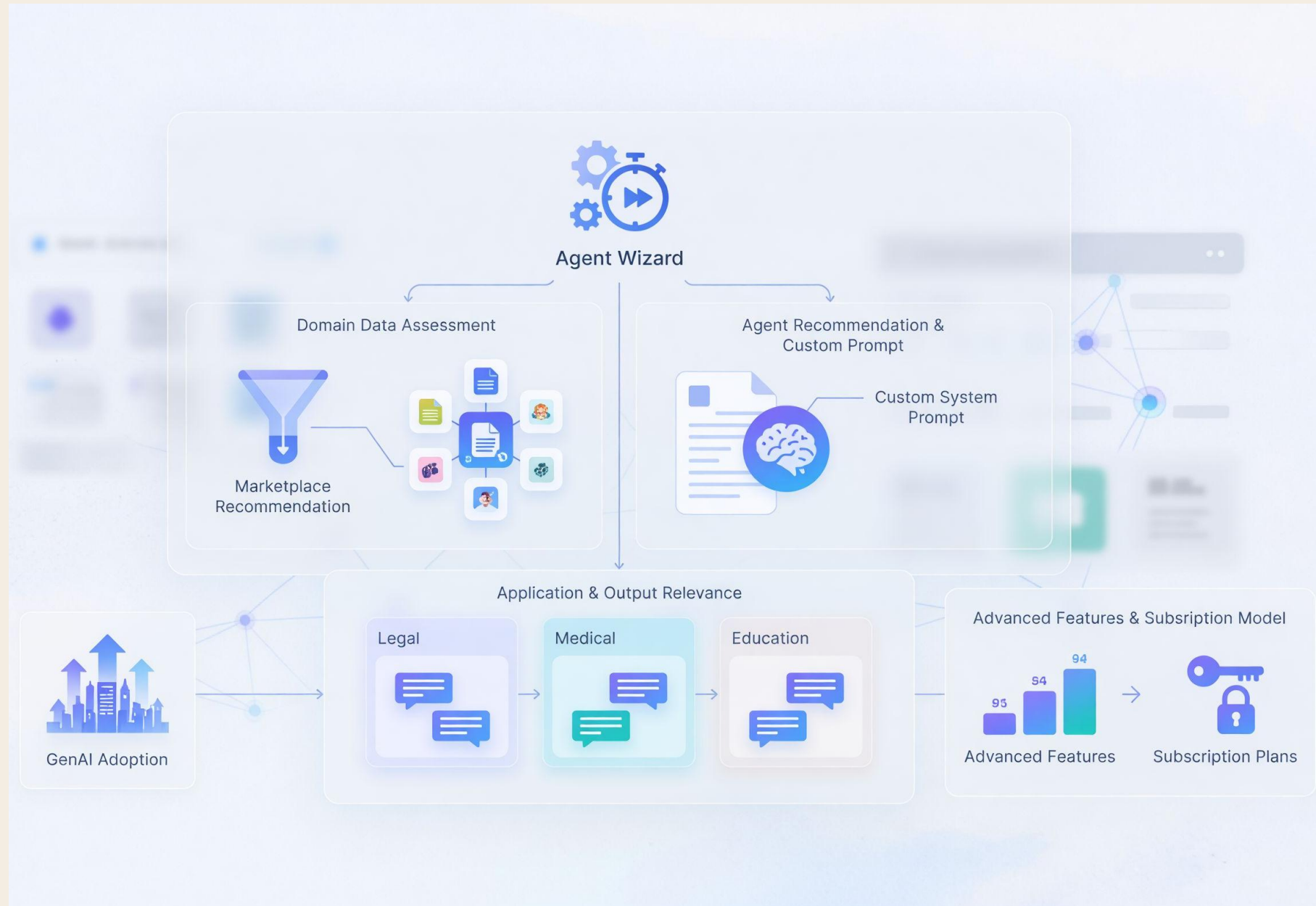


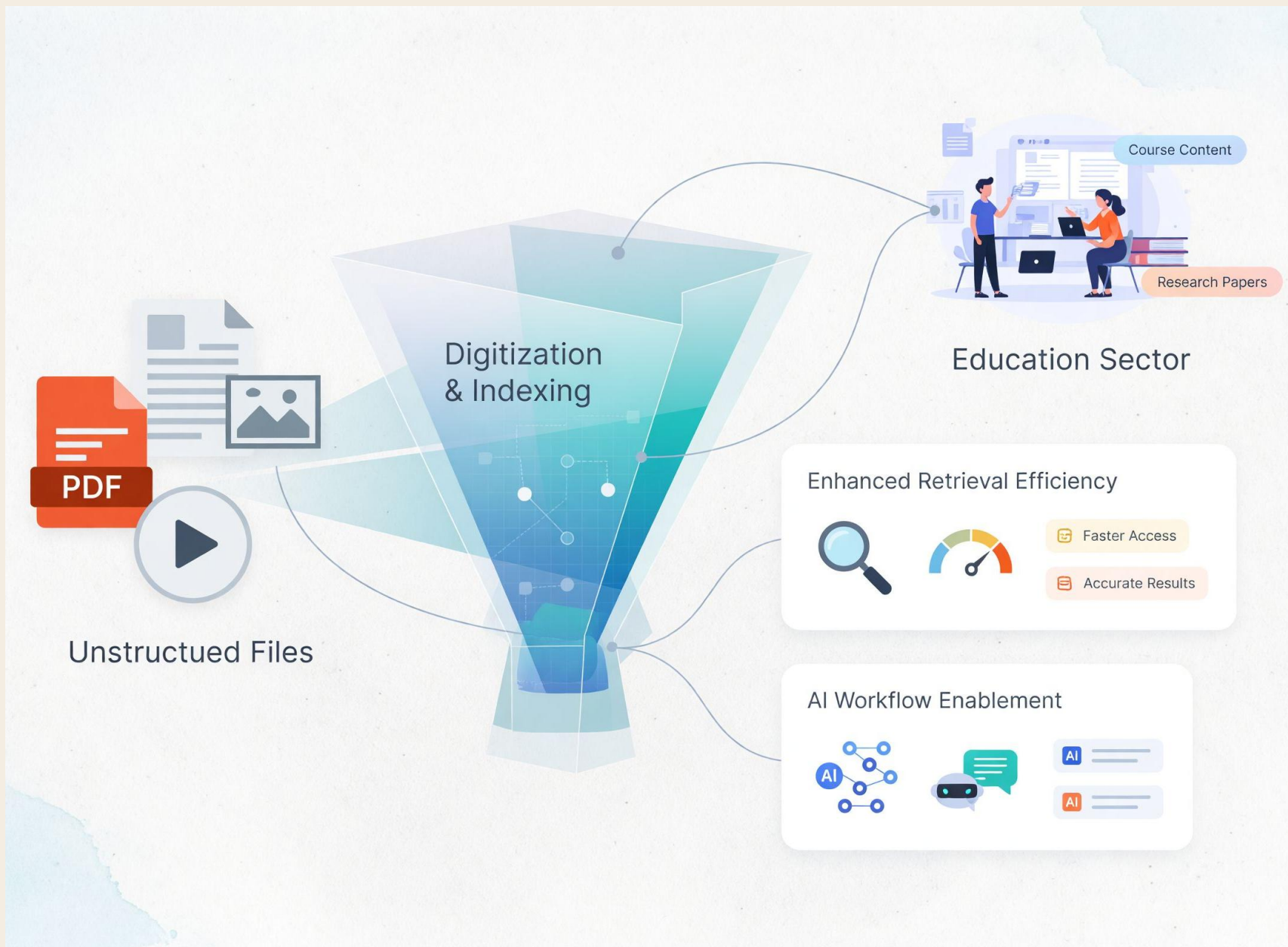


- Open-source platform for developers to create, modify, and innovate GenAI agents.
- Provides debugging tools and transparent internal data review for optimization.
- Functions as an educational resource revealing GenAI agent design and pipelines.
- Some advanced features require subscription access for commercial sustainability.

Agent Wizard

- Automates creation of domain-specific agents in about three minutes.
- Recommends existing agents as references and generates domain-tailored system prompts.
- Facilitates deployment in specialized fields like legal, medical, and education.
- Advanced customization features are subscription-based, enabling broad adoption.

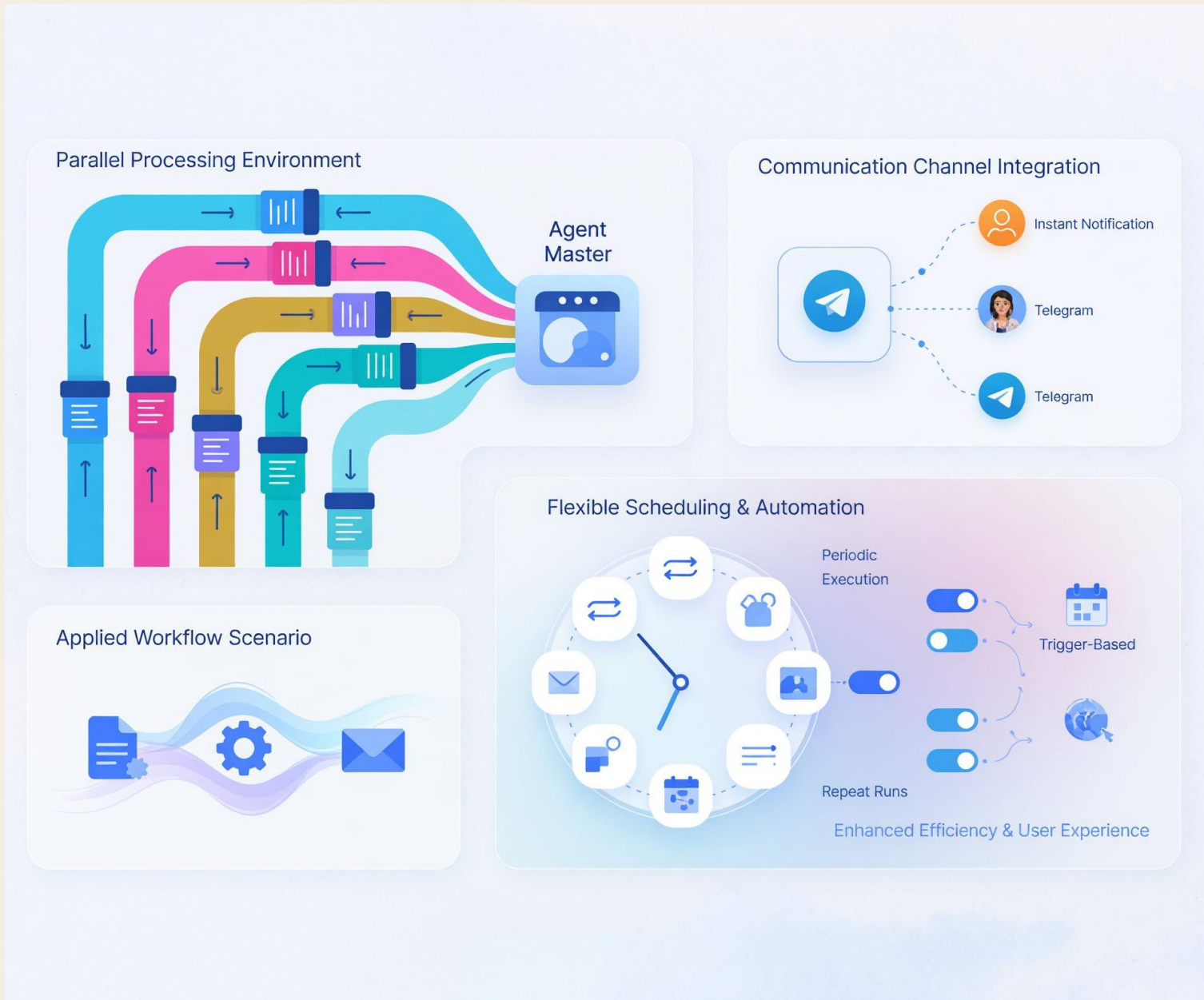


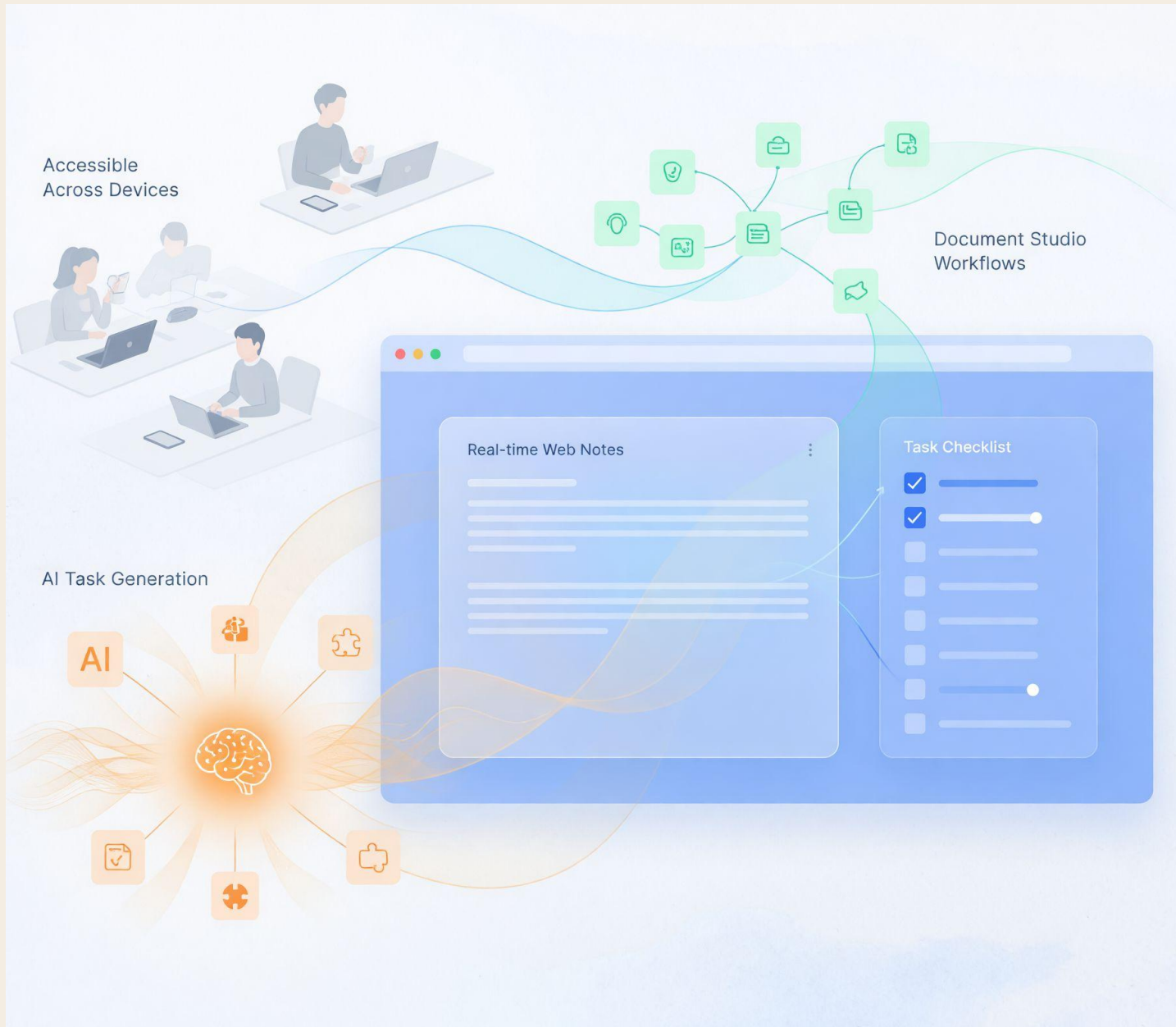


- Converts diverse files into indexed digital data assets for fast retrieval.
- Enhances knowledge-intensive applications by digitizing PDFs, images, and multimedia.
- Supports AI workflows like summarization and question answering.
- Boosts productivity by reducing manual search overhead.

Document Studio

- Enables parallel processing of multiple workflows managed by Agent Master.
- Integrates with email and Telegram for real-time completion notifications.
- Supports scheduled, repeating, and conditional task execution.
- Improves throughput and user experience in managing AI-driven workflows.





- Online note-taking platform integrated with Document Studio task workflows.
- Supports real-time collaborative note creation and task checklist management.
- Links notes to AI task execution, enhancing productivity and coordination.
- Accessible from diverse devices, facilitating flexible working modes.

New Milestone of [Poffices.ai](#): In-house GenAI Engines

1) High Security 2) Productivity Equipment 3) LLM and Agent in one Machine



Poffices B1

Support 4 concurrent users

User Specification:

- Response time: ~ 27 sec
- Searched reference word count: ~3500-4200 words
- Content generation time: ~2 minute
- Output word count: ~1200 words per doc

Hardware Specification:

- CPU: 8 cores, up to 5.5 GHz
- GPU: 16GB VRAM
- RAM: 64GB
- Hard-disk: 1T SDD + 4T SSD



Poffices B2

Support 8 concurrent users

User Specification:

- Response time: ~ 25 sec
- Searched reference word count: ~3500-4200 words
- Content generation time: ~ 1.5 minute
- Output word count: ~1200 words per doc

Hardware Specification:

- CPU: 12 cores, up to 5.6 GHz
- GPU: 16GB VRAM
- RAM: 128GB
- Hard-disk: 1T SDD + 8T SSD



Poffices B3

Support 16 concurrent users

User Specification:

- Response time: ~ 21 sec
- Searched reference word count: ~3500-4200 words
- Content generation time: ~ 1 minute
- Output word count: ~1500 words per doc

Hardware Specification:

- CPU: 16 cores, up to 5.7 GHz
- GPU: 32GB VRAM
- RAM: 192GB
- Hard-disk: 1T SDD + 8T SSD

On-Premises All-in-one Server

Introduction to Poffices All-in-one Server

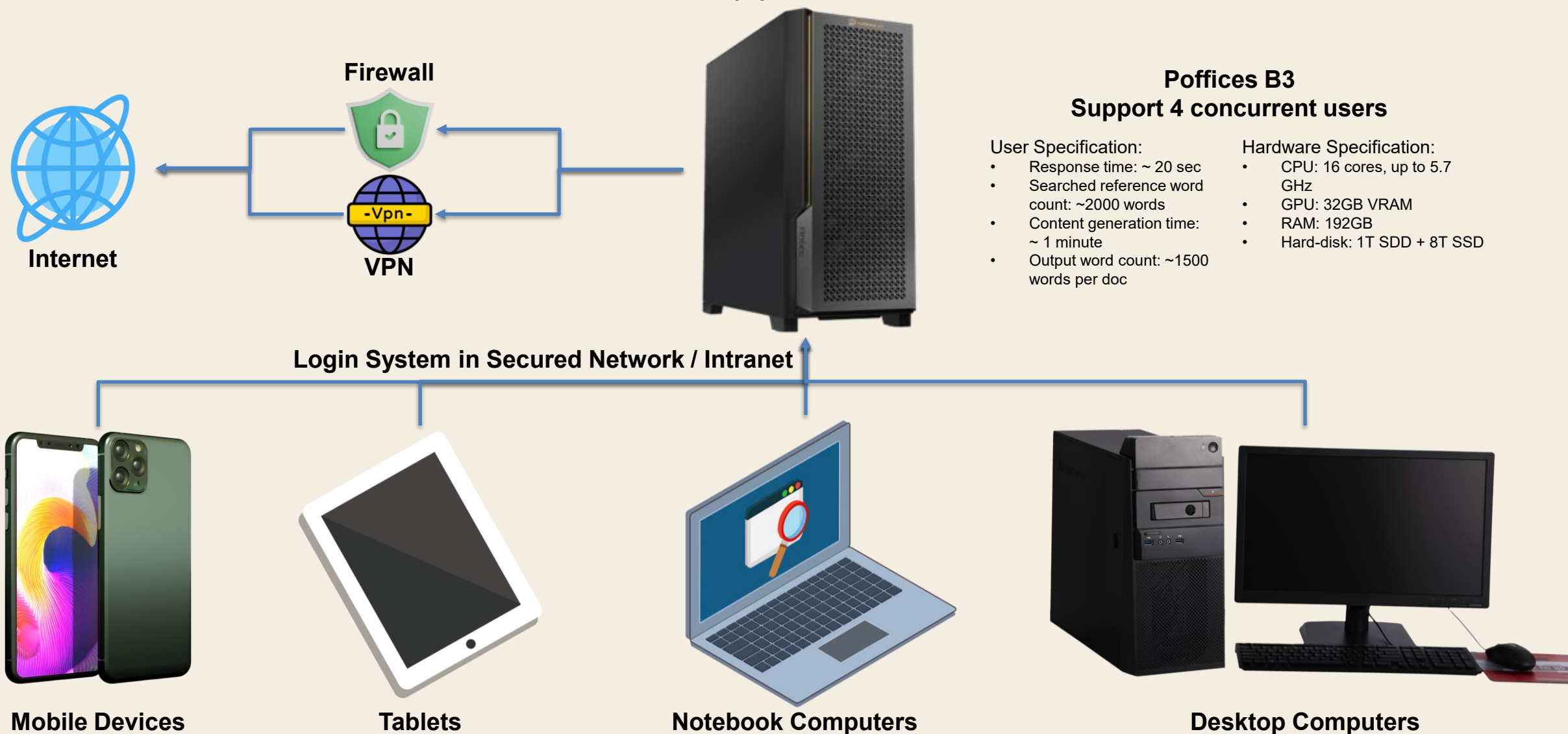


Press to
play the
video



On-Premises All-in-one Server

Poffices All-in-one GenAI Server support all devices in secured network



On-Premises All-in-one Server

Enable Poffices.ai shortcut in mobile device



Press to
play the
video



Private Cloud GenAI Agent Platform



End of Presentation

Thank You