GDGHack!

Build with AI Hackathon

JAAI JUST ADD AI

lector.ai

Red Bull

ARE YOU READY ?

TASK AND THEME OF GDGHACK '25

GDGHack!

Build with AI Hackathon

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GDG Lead


Theme & Task

What is a VLLM?

A Vision-Language Model (VLLM) is an AI system that can understand and generate responses based on both visual inputs (like images or videos) and textual inputs.

Step 1

Create a VLLM

Students are use or fine-tune a Vision-Language Large Model (VLLM) that is specialized in extracting and localizing information from documents.

Step 1

Create a VLLM

Extract.

The VLLM should be able to successfully extract information from a given scanned document. Regardless if it is handwritten or digital.

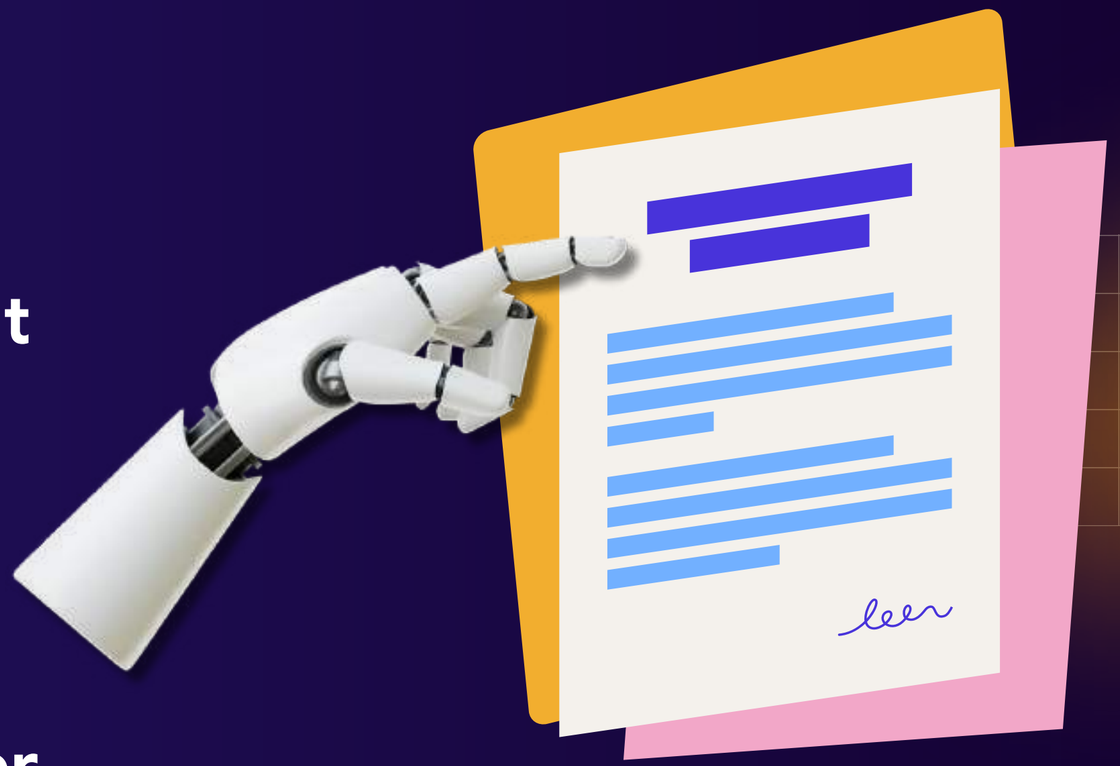
Step 1

Create a VLLM

Localizing.

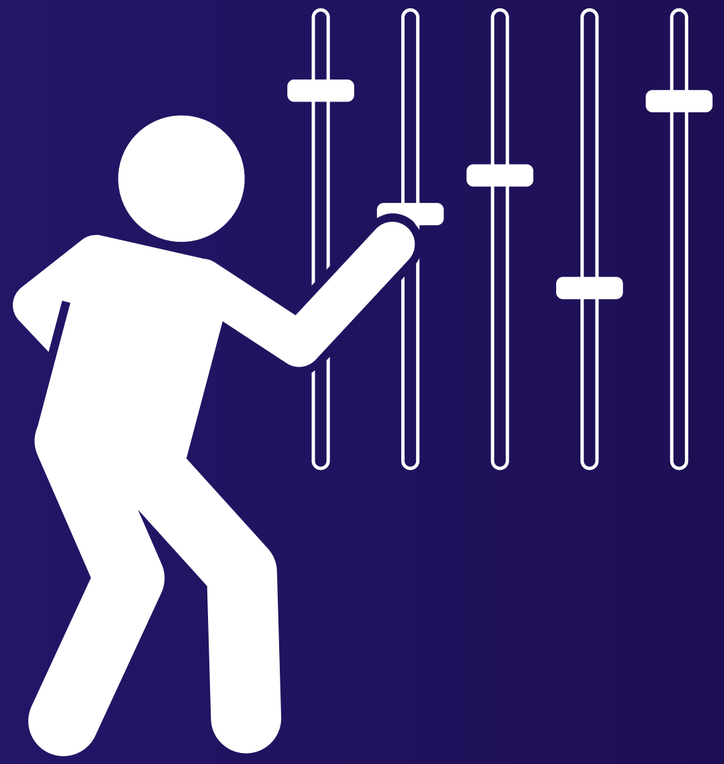
The VLLM should be able to point out where the information it got was extracted from.

This can be a description, or a box drawn on the document, or any other way.



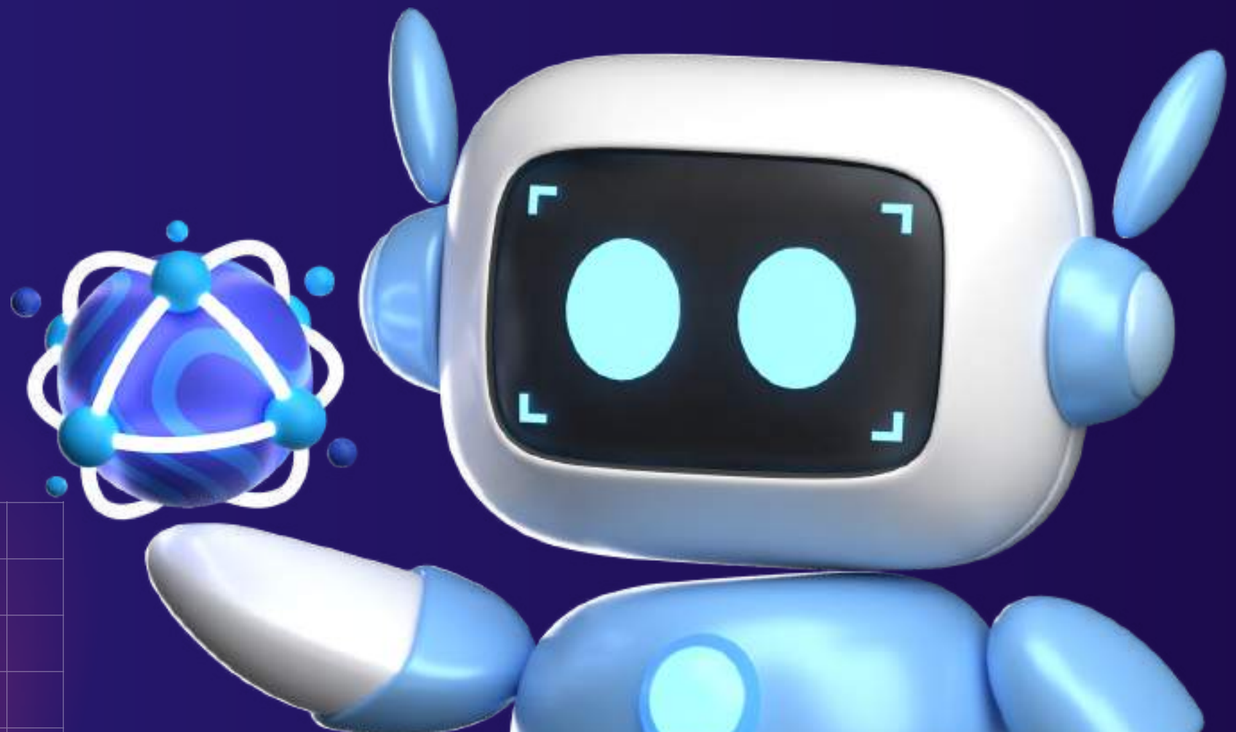
How?

Participants can find existing VLLM models, and fine-tune them for the task.



How?

Test a model with some documents. Compare them, see what works best. Fine tune to figure out what can improve the model further. Iterate until you are satisfied!



Step 2

Create an MVP

Students are requested to develop a minimum viable product (MVP), that utilizes the VLLM that they just optimized.

We do not mind how you make it as long as it works!

MVP Focus

EdTech

EdTech is the combined use of computer hardware, software, and educational theory and practice to facilitate learning and teaching.

MVP Focus

EdTech

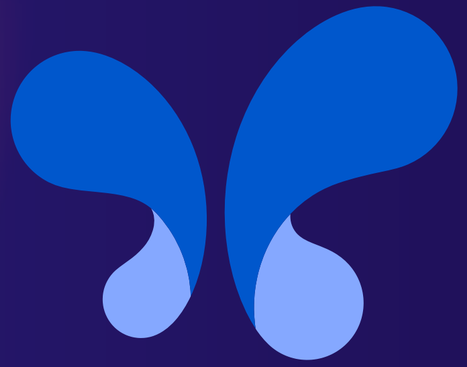
Example projects could be: grading exam papers, reading academic papers etc.

Task Overview

Build with AI

Utilize Google’s Generative AI technologies while building a project. Create impactful products that will create innovation in the chosen field.

Vertex AI



Gemini

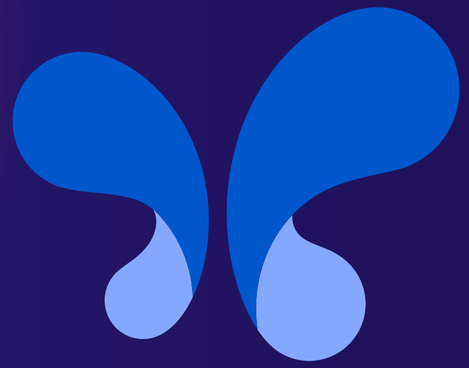
Task Overview

Build with AI

You must utilize one Google AI tool for your project.

Either for the VLLM development, or the MVP.

Vertex AI



Gemini

Task Overview

Free Google Cloud Credits!

Scan the QR code to access free tier products of Google Cloud.

Scan the other QR code for a presentation on how to use the credits.

Credits Here

Tutorial Here

Submission

Deliverables:

- A Github Repository with the project
- Video - 3 minutes
  - About technical aspects of your VLLM and MVP
- Submission Form

More details can be found in the submission criteria document.

Criteria

Grading Breakdown	Score
Problem & Project Description - 10%	
Video - 20%	
VLLM Quality - 40%	
Final Product - 30%	
Total score	

*Using a Google AI Tool is mandatory and the technology should be mentioned in the form and video.

Recap

1. Develop a VLLM for extracting and localizing

2. Develop an MVP that utilizes your VLLM.

3. Use Google technologies while doing so!

Prizes

1st Place

Direct Interviews from

JAAI JUST ADD AI

lector.ai

Fast-track application processing.
Skip the coding challenge!

+ Special trophy :)

Prizes

First Three Teams

GDG Goodie Bags

Filled with a lot of merchandise!

Troubleshooting

Our mentors and tech support team are around to help you!

For online support, join the Discord server!