Rohan N

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EDUCATION

National Public School	**2007 - 2019**
Science	*Bangalore, India*

KMWA PU College	**2007 - 2019**
PCMC	
76%	*Bangalore, India*

Global Academy of Technology	**2007 - 2019**
Artificial Intelligence and Machine Learning	
GPA: 8.42	*Bangalore, India*

Boot.dev (Online backend development course)	**2024 - present**
Back-end development; My profile: boot.dev/u/jaggedstupid17	

PROJECTS

YouTube Summariser (yt.nikhilsatram.com)

Technologies Used: Flask, Git, Large Language Models, Python, Docker, SQLite, HTML, CSS

- YouTubeTranscriptApi was used to fetch captions from a YouTube video
- An LLM (Gemini 1.5 Flash) was used to summarise the contents of the video
- The user can also ask questions about the video and automatically go to the relevant timestamp

Automated Answer Script Evaluation using LLMs

Technologies Used: Multimodal LLMs, Flask, Git, Python, HTML, CSS

- Student answer script and answer key written by the professor are scanned and converted to PDFs
- A multimodal LLM, Gemini, was used to convert these PDFs to text, it also described diagrams accurately
- The LLM was prompted to compare the student's answer with the answer key and assign a score based on the student's understanding of the subject.

Workout Assistant

Technologies Used: Pose detection model, Flask, Python, HTML, CSS

- Uses Google's Movenet, a lightweight pose detection model
- The model's output was used to compare the user's workout video with a baseline video taken by a professional
- Flask was used to create APIs along with HTML and CSS for the front-end

Maze Solver

Skills Learnt: Data Structures and Algorithms, OOP, tkinter

- Automatically generates a maze
- Solves the maze using Depth First Search

CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications:** Learn Linux, Learn Git, Learn OOP, Learn Functional Programming, Learn Data Structures and Algorithms, 95 Words Per Minute typing (typingtest.com)
- **Skills:** Fast learner; Exceptional communication skills; Passionate; Critical thinker
- **Interests:** Science fiction movies and books; Gaming; Football; Music