

TEJASRAM B

Trichy, Tamil Nadu | tejasram03@gmail.com | 91+ 89033 01629 | github.com/tejasram2003

SUMMARY

Motivated undergraduate in Artificial Intelligence and Data Science with aspirations to excel as a Machine Learning Development Engineer and Software Developer. Possessing expertise in Computer Vision, Generative AI, and Natural Language Processing, I am actively pursuing internships to apply this knowledge in real-world settings and make meaningful contributions to the domains of AI and software development. Proficient in developing and optimizing AI algorithms and models.

SKILLS

Languages: Python, C, Javascript, SQL & HTML and CSS

Domain Skills: Computer Vision, Natural Language Processing, Large Language Models, Image Processing and Generative Adversarial Networks

Tools: Git, AWS, Postman, Docker, Google Cloud Platform and Vertex AI

Frameworks: Pytorch, Django, Rest Framework, Langchain, Huggingface Transformers, Tensorflow

Soft skills: Communication, public speaking, Team work, Social-media marketing

EXPERIENCE

LLM Engineer Intern | Augrade

Jan 2024 – Present

- Developed and finetuned a Retrieval Augmented Generation (RAG) pipeline to analyze textual floorplans and point out the shortcomings of it based on different codes and practices for the region.
- Built an API to analyze 3d models and identify inaccuracies and shortcomings based on textual data utilizing vector databases and Large Language Models; handling up to 180 requests per hour.
- Managed development and deployment on AWS cloud instances.

Machine Learning Intern | NIT Trichy

Jun 2023 – Dec 2023

- Optimized GANs for data augmentation, by implementing ensembling and transfer learning, reducing training time by 21 hours and increasing accuracy by 4%.
- Developed a Machine Learning Pipeline in Python using PyTorch and scikit-learn to detect image forgeries, successfully identifying and highlighting suspicious areas in images through ImageNet and YOLO v8 with an accuracy score of 97.6%.

EDUCATION

B.Tech | Artificial Intelligence and Datascience
2021 – 2025

Saranathan College of Engineering Trichy |

CGPA: 8.39/10

Representative of The Odyssey Coding Club of AI & DS Department

Organized over 15 events and conducted seminars & workshops on topics like Git basics, LLM basics with Hugging Face, RAG using Google Cloud & Vertex AI and other AI concepts.

Prize Winner of the GenAI & LLM Hackathon hosted by **Intel** winning a Cash Prize of 20,000.

PROJECTS

Llama-Hunt – AI aided jobseeking: Developed a one-shot platform to parse resumes and respond relevant job positions available. Utilized PyPDF2, Langchain, Huggingface Transformers, Django with BeautifulSoup webscraping and Intel Devcloud instances.

Stable Diffusion Image to Prompt: A CNN and LSTM based model developed using Pytorch to generate descriptive prompts from images, inverting the Stable Diffusion Image generation approach.

Voice Emotion Recognition: A deep learning model that reads an audio file, and detects the emotion of the speaker based on their voice (sad, angry, happy) using LSTMs and Google speech recognition API.

Legal Advice LLM: A system utilizing Mixtral 8x7b LLM, Qdrant Vector database and langchain to provide legal advice based on the Indian constitution, and other books related to the Indian law.

Crime Hotspot Map: A Machine Learning project on predicting the likeliness of user being a victim of crime based on their current location using the K-Nearest Neighbour Regressor algorithm, integrated with Leaflet API and Django Framework.