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.

SKILLS

Languages
Python
C
JavaScript
HTML
SQL

Data Analytics Tools
Numpy
Pandas
Matplotlib
Seaborn
Hadoop

Domain Skills
Computer Vision
Natural Language Processing
Image Processing
Generative Adversarial Networks

Frameworks
Pytorch
Langchain
Huggingface Transformers
Django
React.js

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 a system to analyze 3d models and identify inaccuracies and shortcomings based on textual data utilizing vector databases, Large Language Models and Graph Neural Networks.
- Worked with development and deployment on cloud instances with Amazon Web Services (AWS)

Machine Learning Intern | NIT Trichy Jun 2023 – Dec 2023

- Conducted a research-based internship focused on optimizing Generative Adversarial Networks (GANs) to enhance data augmentation efficiency, resulting in reduced training time and improved accuracy, culminating in the publication of a groundbreaking research paper.
- Developed a Machine Learning Pipeline Python using PyTorch and scikit-learn to detect image forgeries, successfully identifying and highlighting suspicious areas in images through computer vision techniques and neural networks.

EDUCATION

B.Tech | Artificial Intelligence and Datascience Saranathan College of Engineering Trichy | 2021 – 2025

CGPA: 8.39/10

Representative of The Odyssey Coding Club of AI & DS Department

Additional Courses and Certifications

Relevant Coursework: Machine Learning Specialization and Deep Learning Specialization by Deeplearning.ai and Stanford | Machine Learning A – Z | AI in Healthcare and Pharma

PROJECTS

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.

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 webscrapping and AWS Cloud 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.