Pranav A

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Objective

Driven and detail-oriented undergraduate in Artificial Intelligence and Data Science with hands-on experience in building real-world AI systems across NLP, LLMs, and AI models. Skilled in developing, fine-tuning, and deploying language models using modern frameworks, with strong exposure to both research-based and production-ready applications. Looking to apply and expand these skills in dynamic environments that value innovation, learning agility, and impactful problem solving.

Technologies

- **Languages:** Python, JavaScript, HTML, CSS, C++
- **AI/ML:** Large Language Models (LLMs), Fine-Tuning, Prompt Engineering, Transfer Learning, Attention Mechanisms
- **NLP:** Text Classification, Named Entity Recognition (NER), Question Answering, Summarization
- **Tools:** Git, VS Code, Jupyter Notebook, Weights & Biases, Postman
- **Cloud & Deployment:** Streamlit, Gradio, Hugging Face Spaces, FastAPI, Google Colab, Flask
- **Databases:** SQLite, MongoDB, Firebase (basic)
- **Frameworks:** scikit-learn, Hugging Face Transformers, OpenCV, LangChain, matplotlib, NLTK
- **Domains:** NLP, LLM Applications, Medical Imaging, AI-Assisted Diagnostics

Education

B.Tech in Artificial Intelligence and Data Science 2023 – Present
Rajalakshmi Institute of Technology, Chennai

Higher Secondary School (Class 12) Completed March 2023
Velammal Vidyalaya, Chennai

Experience

Student Coordinator, RADAR Centre
Rajalakshmi Advanced Diagnostics & Applied Radiomics

- Spearheading interdisciplinary collaboration between RIT and Rajalakshmi Medical College in radiomics and AI-driven diagnostics.
- Leading a cross-functional student research team on CT imaging and AI projects.
- Coordinating research workflows, stakeholder communication, and early-stage innovation within a Tech-Medico framework.

Research Contributor, AR/VR Research Center
Rajalakshmi Institute of Technology

- Contributed to a VR research project focused on detecting motion sickness symptoms in immersive environments.
- Developed interactive virtual simulations using **Unity** and **Blender**, optimized for **Meta Quest 2**.
- Designed dynamic environments with varying motion profiles to study discomfort thresholds.
- Conducted user testing and data collection to refine sensory elements and reduce simulator sickness.

Projects

CT Imaging Analysis Using AI (RADAR Centre) Ongoing

- Collaborating with medical professionals to develop AI models for CT scan interpretation and diagnostics.
- Focus on radiomic feature extraction and ML for decision support.
- Aiming to enhance diagnostic accuracy through AI-assisted workflows.

AI Mood-Based Movie Recommender System

- Built a system to recommend movies based on user's emotional state using NLP and ML.
- Cleaned and processed 21GB dataset, performed sentiment analysis, trained classifiers.
- Tools Used: Python, scikit-learn, pandas, NLTK, matplotlib.

VR-Based Motion Sickness Detection System

- Developed an immersive VR simulation to study motion sickness triggers and user discomfort thresholds.
- Designed 3D environments using **Blender** and integrated interactions in **Unity** for **Meta Quest 2**.
- Conducted real-time user testing and collected feedback to improve visual and motion fidelity.