

ANIRUD MOHAN

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Education

University of Maryland, College Park

Master's in Applied Machine Learning

Current GPA : 3.76

Aug. 2024 – Present

College Park, MD, USA

Relevant Coursework: Principles of Machine Learning, Principles of Data Science, Probability and Statistics, Optimization, Algorithms and Data Structures for ML

Misrimal Navajee Munoth Jain Engineering College

Bachelor's in Computer Science Engineering

Cumulative GPA : 8.82

Aug. 2019 – June 2023

Chennai, TN, IND

Technical Skills

Programming: Python, Java, C ++ , HTML/CSS, R, SQL, MongoDB

Machine Learning Techniques: Large Language Models (LLMs), Transformers, XGBoost, Adaboost, Fine-tuning, RAG, Model Optimization, Feature Engineering

Technologies/Frameworks: Kaggle, GitHub, Redis, Guardrails, Docker

Libraries: Matplotlib, NumPy, Pandas, JAX, SciPy, Scikit-learn, Langchain, Llama-index, Nemoguardrails

Experience

Thapovan Info Systems

Junior Machine Learning Engineer

Oct 2023 – June 2024

Chennai, TN, IND

- **Developed and Deployed Chatbots:** Designed end-to-end LLM-powered chatbot systems using Hugging Face Transformers.
- **Integrated Guardrails for LLMs:** Improved interaction accuracy by 30% by creating structured **input/output validation pipelines** and implementing **Retrieval-Augmented Generation (RAG)**.
- **Increased accuracy upto 96%:** By effectively implementing advanced **Retrieval Augmented Generation techniques**.
- **Collaborated Cross-Functionally:** Used Jira and Agile to manage 3+ project tasks, ensuring timely delivery and team collaboration

Azentio Software

Software Developer Intern

Feb 2023 – Sept 2023

Chennai, TN, IND

- **Architecture Optimization:** Contributed to refactoring the monolithic architecture into a multi-server structure, improving system scalability and performance.
- **API Development:** Separated UI and API into two projects, improving security and scalability by exposing only the logistics API.
- **Data Integration:** Conducted data analysis using Scrapy and BeautifulSoup4 to efficiently scrape and preprocess large datasets for in-depth insights.

Coursework and Capstone Projects

Early Diagnosis of Alzheimer's Disease | Python, Kaggle, Streamlit, Tensorflow, ROBEX

June 2023

- Developed and trained multiple neural networks on MRI scans, enabling accurate analysis and predictive modeling for healthcare applications.
- Analyzed medical imaging datasets from the Alzheimer's Disease Neuroimaging Initiative (ADNI).
- Ensemble learning techniques provided better results and the overall accuracy was above 97%

University Admit Eligibility Predictor | Python, Flask, HTML, CSS, Linear Regression

November 2022

- Proposed a platform that predicts admission chances with over 95% accuracy based on student profiles and university rankings.
- Processed user inputted information in the back-end of the app to return the final prediction of their chance of being admitted.
- Linear Regression was used to predict the chances of admission for the students based on their profile.

Leadership / Extracurricular

- Led tactical gameplay decisions and mentored a team of 11 players, fostering a winning mentality that secured a runners-up finish among 32 teams at the SMK FOMRA cricket tournament.
- Hosted an inter-college technical quiz event during college culturals, over 200 participants from multiple colleges.
- Volunteered to host 'Sangamitra', an event that engaged physically challenged children from government schools in fun activities throughout the day.