Anjo Jaison P

AI/ML Intern — Generative AI Enthusiast
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Profile Summary

Results-driven **AI/ML practitioner** with expertise in **Machine Learning, Deep Learning, NLP, and Generative AI**. Skilled in **data preprocessing, model optimization**, and **end-to-end deployment** of scalable **ML pipelines**. Experienced in building **real-world applications** leveraging **Python, LangChain, Hugging Face, Streamlit, PyTorch, TensorFlow** to deliver efficient **LLM-powered solutions**.

Education

Digital University Kerala, Thiruvananthapuram *2024–2026 (Expected)*
M.Sc. in Computer Science with Data Analytics

St. Thomas College, Calicut University, Thrissur *2021–2024*
B.Sc. in Mathematics with Computer Science

Projects

Multimodal Retrieval-Augmented Generation (RAG) System GitHub

Python, LangChain, Hugging Face, Chroma, PyMuPDF, Whisper, Streamlit, Generative AI

- Designed and implemented an offline RAG system enabling semantic retrieval across PDF, DOC, image, and audio formats efficiently.
- Processed multimodal data using PyMuPDF, Tesseract OCR, and Whisper for accurate text and audio extraction.
- Generated embeddings with Hugging Face models and stored them in Chroma DB for fast and scalable semantic search.
- Built an interactive Streamlit interface for natural language queries with LLM-powered response generation.

Job Monitoring & Classification System GitHub

Python, BeautifulSoup, Scikit-learn, Pandas, Streamlit

- Automated scraping of job postings with scheduled updates to maintain a live dataset for analysis efficiently.
- Applied TF-IDF and KMeans clustering to categorize job postings intelligently and accurately based on content.
- Developed a Streamlit dashboard providing real-time insights, monitoring, and interactive visualizations of job trends.

Emotion Classification Using NLP & ML GitHub

Python, Hugging Face Transformers, XGBoost, TF-IDF, Streamlit

- Created a text-based emotion classifier detecting joy, anger, and sadness from textual user inputs with high reliability.
- Used BERT embeddings combined with XGBoost to improve prediction accuracy and model performance consistently.
- Deployed on Streamlit to provide real-time predictions with interactive visualization of detected emotions clearly.

Technical Skills

Languages: Python, SQL, HTML, CSS

Libraries: NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, OpenCV, XGBoost, Hugging Face, LangChain

Tools: Google Colab, Git, VS Code, Excel, Jupyter Notebook, Streamlit

Concepts: NLP, Feature Engineering, Model Tuning, Classification, Regression, Clustering, Generative AI, Prompt Engineering, Model Deployment

Certifications

- Google Cloud Data Analytics Certificate – Google (2024)
- Introduction to Git and GitHub – Google (2024)

Soft Skills

- Problem Solving
- Team Collaboration
- Critical Thinking
- Time Management
- Communication
- Adaptability

Extracurricular Activities

- Participated in AI/ML hackathons, webinars, and research-based projects.
- Active open-source contributor to GitHub-hosted AI projects.

Languages

English, Malayalam (Native)