FASIN T S

AI/ML Engineer

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Profile Summary

Passionate and self-driven AI/ML Engineer with strong fundamentals in Machine Learning, Deep Learning, and Data Structures & Algorithms. Developed skills through dedicated self-learning, real-world projects, and hands-on problem-solving. Proficient in the complete machine learning lifecycle from data preprocessing and model training to deployment and validation. Strong in Python programming, Object-Oriented Programming, and collaborative development. Eager to work in a cross-functional team, contribute to impactful AI systems, and continuously stay updated with advancements in AI.

Technical Skills

- **Programming:** Python(Strong), JavaScript, Java
- **Core CS**: Data Structures & Algorithms, Object-Oriented Programming (OOPs)
- **AI/ML**: Supervised Learning, CNNs, NLP, Deep Learning, Computer Vision, LLMs
- **Frameworks & Tools:** TensorFlow, Keras, PyTorch, OpenCV, Pandas, NumPy, Scikit-learn, HuggingFace Transformers, FAISS
- **Web Development**: Flask, FastAPI, React.js
- **Databases**: MongoDB, MySQL, PostgreSQL
- **DevOps & Deployment**: GCP, Docker, Render
- **Platforms**: Google Colab, Jupyter Notebook, Git, GitHub, Kaggle
- **Other**: LangChain, Stack Overflow, LeetCode

Projects

Shoozy - Shoe Recommendation System

GitHub

Python, ML, Flask, React.js, Docker, Render

- Developed a product recommendation system using TF-IDF and cosine similarity to suggest shoes based on user preferences.
- Handled the complete ML lifecycle: data cleaning, vectorization, similarity scoring, and API creation.
- Collaborated across tech stack – Flask (backend), React (frontend), and Docker for scalable deployment on Render.

CatDo - Image Classification System

GitHub

TensorFlow, Keras, Flask, Docker, React

- Built a CNN-based image classifier with 98% accuracy on cat vs. dog images.
- Applied advanced preprocessing and augmentation for model robustness.
- Packaged ML model using Docker and deployed with Flask for real-time web classification.

Research Question Answering with LLMs

GitHub

LangChain, HuggingFace Transformers, FAISS, Python

- Built an end-to-end pipeline that extracts unstructured news content from URLs and transforms it into searchable vector embeddings.
- Used FAISS for fast semantic search and integrated a Large Language Model (LLM) via LangChain for context-aware question answering.
- Applied concepts of data pipelines, vectorization, and LLM orchestration in a real-world use case..

Education

Bachelor of Computer Application

2022-2025

MES Asmabi College, P. Vemballur

- Gained understanding of the Software Development Life Cycle (SDLC), including planning, designing, coding, testing, and deployment, with strong foundations in Data Structures and Algorithms.
- Familiar with various software development tools, networking, data transmission, and related technologies, applying them in real-world academic projects while strengthening skills in Mathematics and Statistics.
- Demonstrated leadership and collaboration skills by coordinating academic events and effectively leading academic project teams.