ANANTHA SHAYAN

PROFESSIONAL SUMMARY

AI/ML enthusiast with hands-on experience in machine learning, predictive modeling, NLP, LangChain, RAG and data-driven solutions. Skilled in building and evaluating machine learning models, with strong collaboration and problem-solving abilities.

CONTACT

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GITHUB LINK :
https://github.com/Anantha-Shayan

Addition Skills :

- Teamwork and Collaboration
- Eager to Learn and take initiative
- Dependable and Responsible
- Time management and resilience

EDUCATION

JSS ACADEMY OF TECHNICAL EDUCATION – BENGALURU, INDIA
2024 - 2028
Computer Science Engineering specializing in Artificial Intelligence and Machine Learning

INDIAN INSTITUTE OF TECHNOLOGY – ROPAR, INDIA
01-2025 – 10-2025
Minor in Artificial Intelligence

MAJOR PROJECTS

SasyaSampada - AI assistance for farming

- Tackled the problem of **low farmer profitability** by developing a **crop recommendation system** that suggests the most profitable crop based on real-time market data, soil conditions and weather.
- Solved the challenge of **information accessibility for low-literacy farmers** by integrating **voice-based assistance in local languages**, ensuring inclusivity.
- Addressed the issue of **fragmented agricultural knowledge** by building an **AI-powered Chabot using LangChain and HuggingFace models with RAG (Retrieval-Augmented Generation)** that retrieves information from trusted government and agricultural sources.

Non-Invasive Health Monitoring System

- Built ML pipeline for predicting hydration & diabetes risk using **sensor fusion**.
- Designed end-to-end workflow: data preprocessing, feature selection, and model evaluation.
- Collaborated with the hardware team for integration of **real-time signals with ML outputs**.

Sentiment Analysis with NLP

- Implemented classification models for sentiment analysis using **scikit-learn, embedding** and custom pre-processing.

MAJOR SKILLS

- Solid grasp of Machine Learning and Predictive Modelling
- Retrieval Augmented Generation
- LangChain
- Data Pre-processing
- Understanding of Convolutional Neural networks (CNN)
- Understanding of NLP - LSTMs/GRUs, Transformers

Libraries and tools : Langchain, Scikit - learn, Pandas, Numpy, Matplotlib and Seaborn, Github
Programming Languages : Python , C++ , C