

Vadlamudi Saketh Sri Harsha

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PROFESSIONAL WORK EXPERIENCE (3.7 Years)

TIGER ANALYTICS- Senior Analyst – AI/ML

May /2025 - Present (Hyderabad)

- Architected an autonomous, **multi-agent** reasoning engine using LangGraph to decompose ambiguous user requests into parallel, dependency-aware execution graphs, **reducing query latency by 60%**.
- Engineered the engine as a **self-correcting, schema-aware RAG pipeline** where orchestrated agents autonomously produce **natural language insights, structured tabular data, and interactive Chart.js configurations** from a single user query.
- Tech Stack : Python, LangGraph, Pydantic, AWS (Lambda, DynamoDB, RedShift, Bedrock), Fast API

VALUELABS - Data Scientist || (Senior Software Engineer)

Mar/2022 – May/2025 (Hyderabad)

- Developed a Machine Learning (ML) model for **Sentiment Analysis**, which accurately classifies customer reviews on products. Achieved 93% accuracy; insights were adopted by product stakeholders to refine customer messaging.
- Architected an **Advertisement Recommendation Platform** using collaborative filtering, achieving MAE of 0.79 and improving ad relevance, leading to a 20% increase in click-through rates.
- Deployed ML models using AWS services such as **EC2, ECR and SageMaker**, leveraging **Docker** for seamless containerization and scalability, while using reliability through robust cloud Infrastructure.
- Spearheaded **Python processes on Factory Design Mechanism**, reduced run time performance by 2x and 12% decrease in Campaign drop off rate.
- Implemented several **Python-based automations** for handling manual/regular tasks resulted in significant reductions of over 65 working hours monthly with notable recognition from stakeholders.
- Delivered 4 high-quality, scalable, and secure **Web applications using Django** framework by creating innovative, user-centric solutions that have consistently exceeded client expectations.

ADDITIONAL WORK

NATURAL LANGUAGE PROCESSING:

- Language Modelling [[Link](#)]: Engineered a state-of-the-art language model using pre-trained advanced transformers like DistilBert, Bert2, fine-tuned on custom dataset for accurate prediction of top 10 masked word and seamless contextually rich text generation.

MACHINE LEARNING:

- Book Recommendation System [[Link](#)]: Instigated a system using Collaborative Filtering to provide personalized top 5 book suggestions to users.
- Walmart Sales Forecasting [[Link](#)]: Anticipated future sales of Walmart using the Sarimax algorithm, delivering highly accurate forecasts with MEAP below 2.5.
- Car Price Prediction [[Link](#)]: Enforced a system that predicts the price of used cars with an impressive accuracy of 94%. Utilized the Random Forest Regressor algorithm to make accurate predictions.

GEN AI :

- Chat With PDF [[Link](#)]: Designed a RAG enabled conversational PDF reader using Langchain, enabling users to engage in AI-powered discussions with their PDFs.

EDUCATION

Executive Post Graduate Certification in Data Science and AI from **IIT Roorkee**

2024 - 2025

B.Tech in CSE from Narasaraopeta Engineering College (8.94 CGPA)

2018 - 2022

AWARDS & CERTIFICATIONS

- **ValueLabs CEO Choice Award Winner 2024** ([Link](#))
- GCP Professional ML Engineer, GCP AI Engineer For Leaders ([Link](#)), AWS Cloud Practitioner ([Link](#))
- AI for Everyone ([Link](#)), Python Data Structures ([Link](#)), Programming for Everybody ([Link](#)) (From Coursera)

SKILLS

- Languages : Python, SQL
- AI/ML: Machine Learning, Natural Language Processing (NLP), Transformers , Generative AI, Retrieval-Augmented Generation (RAG) , LangChain, LangGraph
- Cloud Platforms: AWS (Lambda, DynamoDB, Redshift, EC2, ECR, SageMaker, S3)
- Tools : Git, Unix, Docker, Jira, FastAPI