UPPALA VENKATA SATYA SRINIVAS

Data Science Intern

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SUMMARY

Data Science Intern with hands-on experience in Python, SQL, Machine Learning, Power BI, and Streamlit. Experienced in data preprocessing, exploratory data analysis (EDA), and building predictive models to generate actionable insights. Proficient in model development, evaluation, and deploying end-to-end machine learning solutions.

PROFESSIONAL EXPERIENCE

Data Science Intern, RamanaSoft, Hyderabad Aug 2025 – Jul 2026

- Performed data cleaning, preprocessing, and EDA on real-world datasets to extract actionable insights.
- Built and evaluated ML models (XGBoost, classification algorithms) using SMOTE, feature engineering, and cross-validation.
- Deployed Streamlit applications for real-time prediction and created Power BI dashboards for business reporting.
- Collaborated with teams to deliver data-driven solutions and automate analysis workflows.

PROJECT

Multi-Agent Programming Assistant using Agentic AI **UI:- Link GITHUB**

- Developed a **Multi-Agent Programming Assistant** using Agentic AI architecture to simulate real-world software development workflows.
- Implemented **Developer, QA, and Reviewer agents** using **PhiData and Groq (LLaMA 3)** to generate, debug, and validate Python code through iterative collaboration.
- Built a **Flask-based web application** with interactive UI and integrated **PDF generation for automated documentation of outputs**.

MediRAG – Multi-Agent AI Medical Report Analyzer using RAG and LLMs **UI:- Link GITHUB**

- Developed an AI-powered system that analyzes medical reports using **Retrieval-Augmented Generation (RAG)** and **multi-agent workflows**.
- Implemented **document parsing and OCR** to extract medical values from PDF and scanned reports.
- Integrated **LLM reasoning (Groq / Llama models)** to evaluate lab values and generate simplified health explanations.
- Built a **vector database pipeline using ChromaDB** to store reports and enable semantic retrieval using a unique Report ID.

Telco Customer Churn Prediction — End-to-End Machine Learning Project **UI:- Link GITHUB**

- Developed an end-to-end churn prediction model using Python, XGBoost, and SMOTE to handle class imbalance.
- Performed data cleaning, EDA, and feature engineering to improve model performance.
- Achieved **0.82 ROC-AUC**, optimizing classification accuracy through hyperparameter tuning.
- Deployed a Streamlit application for real-time and batch predictions.
- Designed a Power BI dashboard to identify churn drivers and high-risk customers for data-driven decision-making.

SKILLS

Programming & Tools: Python, SQL (MySQL), Jupyter Notebook, VS Code, Git, GitHub
Data Analysis & Visualization: NumPy, Pandas, Matplotlib, Seaborn, Excel, Power BI, Dashboard Design, EDA
Machine Learning: Scikit-learn, XGBoost, Regression, Classification, Clustering, Feature Engineering, Model Evaluation
Deep Learning & AI: PyTorch , Neural Networks (CNN, RNN, Transformers), NLP, Computer Vision, OpenCV
Generative AI & LLMs: Prompt Engineering, Embeddings, RAG, Vector Databases, LangChain, Hugging Face Transformers
Deployment & MLOps: Flask, Streamlit, Docker, MLFlow

EDUCATION

M. Tech in Computer Science and Engineering — **2026 - Present**
Anurag University

B. Tech in Computer Science and Engineering — **2021 – 2025**
Mother Theresa College of Engineering & Technology

Intermediate in MPC — **2019 – 2021**
SRI GAYATRI JUNIOR COLLEGE

SSC 10th — **2018 - 2019**
T.M.Z.P HIGH SCHOOL