

Thota Ramya

Aspiring Data Scientist

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SUMMARY

Data Science Post Graduate with hands-on experience in machine learning, data analysis, and Generative AI applications. Skilled in Python, SQL, and Power BI, with experience building end-to-end ML models and RAG-based systems. Strong in data preprocessing, visualization, and building data-driven analytical solutions.

SKILLS

Programming: Python, SQL

Data Analytics & Visualization: NumPy, Pandas, Matplotlib, Seaborn, Power BI

Machine Learning & AI: Machine Learning, Deep Learning, Generative AI, RAG, LangChain

Databases: MySQL

Deployment & Tools: GitHub, Streamlit, Hugging Face, FastAPI, VS Code

PROJECTS

AI-Powered Interview Assistant | Generative AI & RAG

- Developed a RAG-based chatbot using LangChain, Google Gemini, and ChromaDB.
- Implemented document processing, chunking, embeddings, and vector database storage for efficient retrieval.
- Integrated Gemini LLM with document retrieval to generate context-aware responses.
- Built a Streamlit application for real-time interview question answering and guidance.

Flight Ticket Price Prediction

- Developed a machine learning-based flight fare prediction system using 10,000+ flight records, performing data preprocessing, feature engineering, EDA, and outlier handling.
- Trained and evaluated Linear Regression, Decision Tree, Random Forest, KNN, XGBoost, and SVR models using MAE, RMSE, and R^2 metrics.
- Achieved a best R^2 Score of 0.95 using Random Forest/XGBoost through feature engineering and hyperparameter tuning.
- Built and deployed a Streamlit and FastAPI application for real-time flight ticket price prediction.

Skin Cancer Detection using YOLO and Roboflow

- Developed a skin cancer detection system using Roboflow and skin lesion image datasets.
- Performed image annotation, preprocessing, augmentation, and model training for lesion classification.
- Achieved **92%+ classification accuracy** with strong precision, recall, and F1-score performance on validation data.
- Built a simple interface for real-time skin lesion image classification and prediction.

EDUCATION

M.Sc. in Data Science | Bankatlal Badruka College for Information Technology | Hyderabad
CGPA: 8.3/10 | 2023 – 2025

TRAINING & CERTIFICATION

Data Science Program | Innomatics Research Labs | Hyderabad
2025 – 2026

