Mallela Shaheena

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Portfolio: mshaheena.github.io/portfolio-site

Date of Birth: 26 October 2001 • Nationality: Indian-Muslim

Professional Summary

Motivated Data Scientist with expertise in Python, R, and SQL, and a foundation in Zoology. Proficient in machine learning, predictive modeling, and analytics, with a strong track record in Kaggle competitions and deployed projects like the Multilingual LLM Chatbot and Rainfall Prediction App. Skilled in delivering actionable insights and collaborating cross-functionally. Experienced in customer support and self-directed learning, enhancing technical and communication skills for data storytelling.

Work Experience

Customer Support Executive

Altruist Technologies, India — Oct 2023 – Jul 2024

- Supported 500+ customers via phone and email, achieving a 95% satisfaction rate.
- Tracked queries using CRM tools, ensuring rapid resolution and high service quality.
- Collaborated with technical teams to resolve issues, reducing resolution time by 30%.
- Enhanced communication and documentation skills, vital for data storytelling.
- Improved internal help documentation by addressing recurring queries.
- Transitioned to data science through self-learning and certifications.

Professional Development

Self-Directed Data Science Projects

Remote — Aug 2024 – Present

- Developed and deployed live projects, including Multilingual LLM Chatbot and Rainfall Prediction App, using Python, FLAN-T5, and Gradio, hosted on Hugging Face Spaces.
- Created a portfolio website (mshaheena.github.io/portfolio-site) to showcase projects, using HTML, CSS, and JavaScript.
- Advanced skills in machine learning and NLP through self-study and certifications, applying techniques to real-world datasets.
- Engaged with online data science communities to refine projects, improving model performance by 10–15% through iterative feedback.

Education

Master of Science in Zoology

Sri Venkateswara University, Tirupati — 2023
Percentage: 85%

Bachelor of Science

Margadarshi Degree College, Piler — 2021
Percentage: 90%

Certifications

- HP Data Science & Analytics Certificate, 2025
- HP AI Beginner Certificate, 2025
- Data Science with Python, Nucot, Bangalore (May 2024 – Jul 2024)

Kaggle Competitions

March Mania (2025) Forecasted basketball outcomes with 88% accuracy using XGBoost, Random Forest. Tools: Python, Scikit-learn, Pandas.

GitHub Tokenized Data (2025) Improved model precision by 15% using NLP. Tools: Python, NLTK, Pandas.

Hybrid Model Prediction Chatbot (2025) Built chatbot with LSTM-XGBoost, enhancing accuracy by 20%. Tools: Python, TensorFlow, Streamlit.

Binary Rainfall Predictions (2025) Achieved top 10% ranking with 92% accuracy using LightGBM. Tools: Python, LightGBM, Pandas.

AI Mathematical Olympiad (2025) Solved problems with 95% success rate, targeting silver. Tools: Python, SymPy, Pandas.

Key Projects

Live Projects

Multilingual LLM Chatbot Built using Google's FLAN-T5, deployed with Gradio on Hugging Face Spaces. Supports Hindi, Telugu, French, Arabic with intelligent replies. Live Chatbot. Tools: Python, FLAN-T5, Gradio.

Rainfall Prediction App Regression-based predictor with 92% accuracy using LightGBM, deployed via Gradio. Features real-time inputs. Live App. Tools: Python, Scikit-learn, XGBoost, Gradio.

Other Projects

Predictive Modeling Forecasted trends with 90% accuracy using hyperparameter tuning. Tools: Python, Scikit-learn, Pandas.

NLP Project Achieved 85% accuracy in sentiment analysis for multilingual datasets. Tools: Python, NLTK, TensorFlow.

Image Classification Built deep learning model with 87% accuracy for categorization. Tools: Python, TensorFlow, NumPy.

End-to-End ML Pipeline Engineered scalable pipeline, reducing processing time by 30%. Tools: Python, Pandas, Scikit-learn.

Relevant Coursework

- Data Science with Python: Focused on preprocessing, machine learning, visualization using Pandas, Scikit-learn, Matplotlib.
- Generative AI with RAG: Implemented Retrieval-Augmented Generation using ChromaDB, Gemini API.

Technical Skills

- Programming: Python, SQL, R
- Data Analysis: Pandas, NumPy, Scikit-learn, TensorFlow, MySQL, Excel
- Visualization: Tableau, Matplotlib, Seaborn, Power BI
- Machine Learning: Predictive Modeling, Clustering, Deep Learning, NLP
- Operating Systems: Windows, Linux
- Tools: JIRA, Streamlit, Gradio, ChromaDB, Gemini API

Languages

English, Hindi, Urdu, Telugu

Hobbies & Interests

Cooking, Fashion Design, Reading Books

Declaration

I hereby declare that the above details are true to the best of my knowledge and belief.