RAGUL PRASAD A

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Personal Profile

Data Science student with interests in machine learning, deep learning, and applied artificial intelligence. Experienced in working with structured and unstructured data, developing predictive models, and evaluating performance using statistical metrics. Actively exploring real-world applications of AI.

Education

2022 – 2027: Integrated MSc in Data Science

Amrita Vishwa Vidyapeetham, Coimbatore
GPA: 7.88/10.00

2021 – 2022: Higher Secondary Certificate (HSC)

GKD Matric Hr Sec School, Coimbatore
Percentage: 88.33%

2019 – 2020: Secondary School Leaving Certificate (SSLC)

GKD Matric Hr Sec School, Coimbatore
Percentage: 86.88%

Skills

Programming: Python, SQL,R Programming,Matlab
Data Analysis: Pandas, NumPy, Exploratory Data Analysis, Statistics
Machine Learning: Regression, Classification, Clustering, Scikit-learn
Deep Learning: Neural Networks, TensorFlow / PyTorch (Basic)
Visualization: Matplotlib, Seaborn, Plotly,PowerBI
Tools: Git, GitHub, Jupyter Notebook, UiPath,KNIME

Certifications

- Python for Data Science – Code Basics
- Data Analysis using Python – Cognizant
- Data Visualization using Python – Cognizant
- Machine Learning – Cognizant

Projects & Research

Parameter-Efficient Aspect-Based Sentiment Analysis using BERT Adapters | Dec 2025 – Mar 2026

- Developed a joint Aspect-Based Sentiment Analysis (ABSA) model using BERT-base with Houlsby-style adapters for parameter-efficient fine-tuning.
- Implemented BIO tagging for aspect extraction and span-level sentiment classification within a unified neural architecture.
- Reduced trainable parameters by over 95% compared to full fine-tuning while maintaining competitive performance.

Indian Cricket Squad Performance Analysis | Jan 2025 – Feb 2025

- Analyzed the Indian cricket team's performance over the past five years using historical match data.
- Evaluated key metrics including batting averages, strike rates, bowling economy, and venue-based trends.
- Provided data-driven strategy recommendations for optimizing team performance under Dubai pitch conditions.

Used Car Price Prediction & Recommendation (Conference Paper) | Feb 2025 – Mar 2025

- Designed and evaluated machine learning models to predict used car prices based on real-world market data.
- Performed feature analysis to identify key pricing factors such as mileage, vehicle age, brand, and fuel type.
- Applied regression techniques and validated models using standard evaluation metrics.
- Visualized pricing trends and correlations using Matplotlib and Seaborn to support analytical insights.

Library Management System | Jul 2024 – Nov 2024

- Developed a system for book cataloging, member management, and transaction tracking.
- Implemented backend functionality using Python and MySQL with an HTML-based front end.
- Improved operational efficiency and accuracy in managing library records.

Personal Interests

- Sports Analytics (Cricket)
- Predictive Modeling & Data Analysis
- Data Visualization & Insight Generation
- Traveling

Declaration

I hereby declare that the information furnished above is true and correct to the best of my knowledge and belief.