Lakshmi Priya K

DATASCIENCE STUDENT

PROFESSIONAL SUMMARY

Postgraduate student in Data Science with hands-on experience in Python, machine learning, and AI model development. Skilled in data preprocessing, XGBoost, MLP, and CNNs, with a strong interest in solving real-world problems through data-driven solutions.

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Location : Chennai, Tamilnadu, India

EDUCATION

- **Master of Science in Data Science | 2024-2026**
  Sastra Deemed University

- **Bachelor of Science in Computer Science | 2021-2024**
  Meenakshi College for Women, 80%

- **HSC | 2019-2021**
  Don Bosco Matriculation Higher Secondary School, 89.4%

- **SSLC | 2018-2019**
  Don Bosco Matriculation Higher Secondary School, 89.4%

SKILLS

- Strong Communication
- Analytical Skills
- Problem Solving Skills

PROJECTS

Climate-Aware Energy Demand Forecasting Using Weather Data
- *Built a machine learning model to forecast energy demand using only weather features (temperature, humidity, wind speed, etc.).*
- *Achieved an R^2 score of 0.995 using XGBoost Regressor and classified peak grid stress events with 99.4% accuracy using MLP Classifier.*
- *Focused on making smart grid forecasting scalable without internal sensor data.*
- *Tools: Python, Scikit-learn, CNN, LightGBM, Pandas*

Grid Stress Classification Based on Simulated Demand
- *Engineered a binary classification system to identify high-demand ("grid stress") periods from simulated data.*
- *Applied Logistic Regression, Random Forest, XGBoost, and LightGBM classifiers.*
- *Evaluated models using Accuracy, Precision, Recall, and F1-Score metrics; MLP and LightGBM performed best.*
- *Tools: Scikit-learn, Matplotlib, NumPy, Jupyter Notebook*