JAGADEESWARI J M

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Executive summary

Data Science graduate skilled in Python, SQL, Machine Learning, and Data visualisation. Experience in building predictive models, analysing complex datasets, and developing real-time dashboards. Strong problem-solver with hands-on project experience, eager to apply data-driven insights to support business decision-making and product growth.

Education

Bachelor of Science in Data Science
The American College, Madurai, Tamil Nadu
Graduated: May 2025 GPA: 8.7

Master of Science in Data Science
Annamalai University, Chidambaram, Tamil Nadu
Expected Graduation: May 2027 [Present

Relevant Coursework: Machine Learning, Data Visualisation, Deep Learning, Python & R Programming, SQL, Big Data Analytics

Skills

Programming: Python, R, SQL, Java
ML/AI: Machine Learning, Deep Learning, Predictive Modelling, Classification, Regression, Feature Engineering, Neural Networks (TensorFlow, PyTorch)
Data Processing: Pandas, NumPy, ETL, Data Cleaning,
Data Wrangling Deployment: Streamlit, Model Deployment, Jupyter Notebook Databases: MySQL, PostgreSQL
Visualisation: Power BI, Tableau, Matplotlib, Seaborn, Plotly

Projects & Research Papers

- **DriftAI:** Drift Angle Prediction Dashboard: Developed a predictive ML model to forecast drift angles for motorsport vehicles. Built an interactive Streamlit dashboard for real-time model predictions and analysis. Tech: Python, Scikit-Learn, Streamlit, Pandas
- **Hybrid Intelligence for Autonomous Vehicles**
- Developed end-to-end autonomous vehicle decision system using YOLOv8 object detection, LSTM trajectory prediction (87% accuracy), and Multi-Armed Bandit optimization; deployed via Streamlit with real-time inference at 45 FPS; published in IJCER 2024 conference presented at St. Francis College, Bangalore.
- **Physics-Informed Machine Learning for Tire Degradation and Lap-Time Risk Modelling in Motorsport.** Presented and won the **Best Paper Award** for research at a national conference. Developed an interpretable ML framework integrating domain physics with regression and classification models, achieving $R^2 = 0.96$ and Macro-F1 = 0.99.
- **IoT & Smart Security System (Research Paper)** Designed an IoT-based smart security model with sensor-driven anomaly detection. Presented the work at the Advanced Computational Intelligence & Disruptive Technologies Conference, PSG College, Coimbatore.

Experience

Data Science & Machine Learning Intern – Edureka Enterprise
(Dec 2023)

- Worked on predictive modeling, data preprocessing, and ML pipelines.
- Built end-to-end data workflows and contributed to real-world analytics tasks.

Big Data Engineering Intern – IIT Allahabad (Hadoop Core)
(May – Jun 2024)
Processed 500GB+ datasets using Hadoop MapReduce; optimized ETL pipeline reducing query execution time by 35%; implemented batch processing reducing computational overhead by 40%

IoT & Robotics Intern – Corizo
(Jul – Aug 2024)

- Worked on IoT system integration, robotics components, and sensor-driven data analytics.

Data Analytics Intern – Intellizy Studio
(Jun – Jul 2024)

- Applied data analytics techniques to business use cases.
- Performed EDA, reporting, and dashboard creation for real datasets.

Certification

- Data Visualization: Empowering Business with Effective Insights – TATA
- Data Science 101 (DS0101EN) – IBM
- Diploma in MySQL and Statistics for Data Analysis
- Data Science & Analytics – HP (2024