Lalitha Samyuktha Jayanthi

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Value Proposition

Data Science graduate with a strong foundation in statistics, machine learning, and data-driven problem-solving. Proficient in Python, SQL, and cloud platforms like Azure. Skilled in building scalable models for classification, forecasting, and optimization. Eager to partner with business teams to translate raw data into actionable insights and contribute to innovative AI solutions in a collaborative environment.

Education

- B. Tech | CSE-Data Science | Avanthi Institute of Engineering and Technology | 2025 | 7.88 CGPA
- Intermediate | Sri Chaitanya Jr. College | 2021 | 9.12 CGPA
- Tenth | Sri Chaitanya School | 2019 | 9.5 CGPA

Technical Proficiencies

- Programming: Python, SQL, Spark/Databricks
- Machine Learning & Modeling: Classification, Forecasting, Optimization, Predictive Modeling, Data Manipulation
- Cloud Platforms: Azure, GCP
- Tools & Practices: PowerBI, Tableau, GitHub, Jira, Confluence, Agile/DevOps
- Soft Skills: Problem-Solving, Collaboration, Prioritization, Knowledge Sharing

Projects

Scalable Machine Learning Model for Customer Churn Prediction (Classification Problem)

- Partnered with a simulated business team to analyze large datasets (using Python and SQL) and build a classification model to predict customer churn, achieving improved accuracy through feature engineering and hyperparameter tuning.
- Deployed the model on Azure cloud platform, automating workflows with resilient pipelines for production-grade scalability.
- Translated raw data into actionable insights, reducing simulated churn by optimizing retention strategies; presented findings using PowerBI dashboards.
- Technologies: Python (scikit-learn, pandas), SQL, Azure, Spark/Databricks for handling large datasets.

Forecasting and Optimization Model for Supply Chain Efficiency

- Developed a forecasting model to predict demand and optimize inventory levels, solving real-world business problems in operations research.
- Applied advanced ML techniques (e.g., time-series forecasting with ARIMA and Prophet) and optimization algorithms to large datasets, collaborating with cross-functional teams via Jira and Confluence.
- Explored statistical methods to deliver insights that influenced simulated business decisions, such as cost reduction through efficient resource allocation.
- Deployed on GCP for scalability; contributed to best practices by documenting code and sharing knowledge in a team setting.
- Technologies: Python, SQL, GCP, Tableau for visualization, GitHub for version control.
- Outcome: Modeled scenarios that optimized supply chain costs by up to 15% in test data (based on standard benchmarks).

Data-Driven Optimization for Healthcare Resource Allocation

- Built and trained models on large healthcare datasets to solve optimization problems, focusing on resource allocation and predictive analytics.
- Collaborated with product teams to define solutions, using data manipulation techniques to clean and process raw data into insights.
- Applied ML for classification and forecasting, automating workflows with Databricks for efficient, scalable processing.
- Continuously explored advanced techniques in statistics and ML, contributing to innovation by presenting results in Agile sprints.
- Technologies: Python (TensorFlow), SQL, Azure Databricks, PowerBI for BI reporting.

Internships & Simulations

- AI Intern – AIMER Society | 8 Weeks
- ML Intern – Indian Servers | 8 Weeks
- Data Science Intern – Yhills | 8 Weeks
- Data Science Intern – Prodigy | 4 Weeks
- Job Simulation – TCS | Forage Plat form

Certifications

- Microsoft Azure Data Analytics.
- Google Cloud Gen AI.
- Data Analytics by Jobaaj Learnings.
- SQL by Oracle.
- Java by Oracle.

Additional Information

- Strong collaboration skills demonstrated through group projects and knowledge-sharing sessions.
- Passionate about applying ML and optimization to business challenges in dynamic teams.