

AJEY DHAYASHANKER LOGANATHAN

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SUMMARY

Data science professional with 2 years of experience, capable of applying diverse statistical and machine learning models. Comfortable working across the data pipeline from cleaning and analyzing data to building predictive models and sharing insights through clear, visual dashboards and storytelling.

WORK EXPERIENCE

Data Analyst

Jul 2022 - Jun 2024

Tata Consultancy Services, Chennai, India

- Automated quarterly data updates using Python scripts, reducing process time by 40%.
- Helped reduce support tickets and enhance SLA compliance by delivering proactive insights via Excel and Power BI reports for six key applications.
- Ensured integrity of critical datasets for a successful system migration by cleansing and standardizing data using SQL across multiple sources.
- Supported end-to-end ETL pipeline development using Informatica by gathering data requirements and validating output, ensuring accurate data flow across reporting systems.

EDUCATION

Master of Business Analytics

Aug 2024 - May 2026

The University of Texas at Arlington, Arlington, TX

GPA 4.0/4.0

- Coursework: Statistics, Forecasting, Data Mining, Data Warehousing, Cloud Computing, Data Science.
- Graduate Teaching Assistant at College of Business - Instructed six classes, responsible for teaching, and grading quizzes and homework assignments.

Bachelor of Engineering in Computer Science

Aug 2018 - Jun 2022

SRM TRP, Trichy, India

GPA 7.75/10.0

- Managed a national-level Computer Science symposium.

SKILLS

- Languages & Tools:** Python, R, C++, SQL, Excel, Power BI, Tableau, Streamlit, Linux
- Cloud & Big Data:** AWS, Azure, Databricks, Spark, Docker, Kubernetes
- Machine Learning Models:** Regression, Clustering, Random Forest, Neural Networks, NLP
- Packages:** Scikit-learn, Pandas, NumPy, PyTorch, TensorFlow, Folium, Matplotlib, Seaborn
- Soft Skills:** Communication, Adaptability, Collaboration, Attention to Detail, Critical Thinking, Teaching
- Certifications:** IBM Data Science, Google Data Analytics, Azure Fundamentals, Data Fundamentals, DevOps Engineer

PROJECTS

Market Basket Analysis App

- Built a web app that runs association rule mining using a custom Apriori algorithm, resulting in 100% user control over support/confidence thresholds and rule output ranked by lift.
- Improved accessibility of data-driven decisions by deploying an interactive Streamlit app for non-technical users to upload transaction data and visualize frequent itemsets reducing manual analysis effort for exploratory retail analysis tasks.

Economic Forecasting of Poultry in US

- Forecasted poultry market prices by building ARIMA, SARIMA, SARIMAX, and VAR models on monthly chicken and egg price data, achieving 84.5% forecast accuracy over a 3-month horizon.
- Improved price trend prediction accuracy by incorporating exogenous variables like CPI and avian flu into time series models, enabling stakeholders to make data-driven production and pricing decisions in a volatile agricultural market.

Airbnb Clustering Analysis

- Implemented PCA to reduce dimensionality and built K-means and bisecting K-means algorithms from scratch, resulting in clearer segmentation of Airbnb listings based on property attributes.
- Visualized clustering outcomes with appropriate charts like radar and interactive geographic visualizations using Folium, helping identify different types of rentals and suggesting strategies for each.