

BHAVANA JAYAPPA

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Summary:

Data and Analytics professional with hands-on experience in SQL, Python, Power BI, and Tableau for building automated dashboards, ETL pipelines, and data integration workflows. Skilled in data cleaning, transformation, and trend analysis to deliver accurate, actionable insights that support business and operational decision-making.

Experience:

Georgia State University - Graduate Assistant (Data Analyst).

Aug 2024 –Present

- Extracted, cleaned, and validated 15,000+ student records using Python (Pandas, NumPy), SQL, and Excel Power Query, enhancing data reliability by 20% and ensuring audit-defensible program assessment reports.
- Developed and automated recurring Tableau dashboards for integrating multiple data sources to track retention KPIs and operational performances, reducing manual reporting time by 30% and enabling faster leadership decision-making.
- Applied statistical analysis and machine learning models (classification, clustering) to uncover behavioral patterns among student cohorts, driving data-informed campus initiatives and strategic planning.

Tata Consultancy Services Ltd — Data Analyst

Oct 2022 - July 2024

- Analyzed and automated large-scale telecom datasets using Python, SQL, and Excel macros, improving data accuracy and reducing manual reporting time by 30% through streamlined workflows.
- Developed KPI-driven Power BI dashboards for 200+ business and finance stakeholders, aligning insights with operational and revenue goals to enable data-backed strategic decisions.
- Redesigned and optimized a MySQL database schema with 100+ entities and 500+ attributes, enhancing query efficiency and supporting scalable analytics pipelines across sales and operations.

Projects:

Airline Comparison Analysis | Tableau, Excel

- Analyzed 3.9M+ U.S. flight records to evaluate operational KPIs and performance metrics between major airlines, identifying key factors affecting delay and cancellation trends.
- Built and automated 25+ interactive Tableau dashboards visualizing on-time performance, route efficiency, and cost-impact analysis, enhancing leadership visibility into operational forecasting.

Bank Loan Default Prediction | RStudio, Data Mining

- Cleaned and modeled 100K+ borrower records using statistical data mining and machine learning techniques (Random Forest, XGBoost) to identify high-risk customer segments.
- Delivered actionable financial insights that supported credit-risk forecasting and policy optimization, achieving a 96% prediction accuracy and improving data-driven decision-making.

Skills:

Programming & Scripting: Python, R, C++, SQL, VBA Automation

Databases & Infrastructure: MySQL, PostgreSQL, MongoDB, AWS, Data Modeling, ETL Pipelines

Data Analysis & Machine Learning: Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Keras, NLTK,

Statistical Modeling, Forecasting, Data Mining, Data Science

Visualization & Business Intelligence: Tableau, Power BI, Excel (Power Query, PivotTables, KPI Dashboards), Matplotlib, Seaborn

Tools & Platforms: Git/GitHub, Jupyter Notebook, Salesforce, Windows, macOS, Linux

Emerging Technologies: AI-Assisted Automation, LLM-Based Systems (RAG, Prompt Engineering Concepts)

Education:

Master of Science in Data Science and Analytics at Georgia State University

Bachelor of Engineering in Electronics & Communication at Dr.Ambedkar Institute of Technology