SOWDHAMINI BHARADWAJ

Fairfax,VA | sowdhaminibharadwaj6@gmail.com | 703-937-7744

SUMMARY

Data Analyst with 2+ years of experience and a Master's student in Data Analytics Engineering at George Mason University. Proficient in SQL, Python, Power BI, and Tableau for ETL pipelines, data visualization, and database management. Skilled in transforming complex data into actionable insights to drive business growth and decision-making.

SKILLS

Programming Languages: Python, SQL, R
Data Analysis & Visualization: Tableau, Power BI, Matplotlib, Seaborn, Statistical analysis, Data Cleaning, Exploratory Data Analysis (EDA), Scikit Learn, Machine Learning, Scikit Learn, Machine Learning, Deep Learning, NLP
Database Management/ETL & Data Pipeline Techniques: MySQL, Microsoft SQL Server (SSMS), NoSQL (MongoDB), Azure Data Factory (ADF), AWS Glue, data transformation, and integration
Tools: Microsoft Excel (Advanced), SharePoint, Word, PowerPoint, Outlook, GitHub
Soft Skills: Communication, teamwork, attention to detail, time management, problem-solving

EXPERIENCE

Data Analyst - Merilytics, India — *Jul 2022 – Dec 2023*

- Improved data quality, modeling, and reporting accuracy across cross-functional projects.
- Optimized 50+ SQL queries in SSMS, improving data retrieval speed by 35%.
- Designed and deployed ETL pipelines via Azure Data Factory for automated data integration.
- Structured scalable data warehouses to support reporting consistency.
- Designed and deployed **ETL pipelines using Azure Data Factory**, enabling automated data ingestion and transformation from multiple sources.
- Created 10+ dashboards in Power BI and Tableau for key stakeholders in marketing, finance, and operations.
- Collaborated with 10+ stakeholders to gather business requirements and deliver actionable insights.
- Reduced reporting turnaround time by 40% and improved decision-making across departments.

Data Science Intern - SmartInternz, India — *Jan 2022 – May 2022*

- Developed predictive models to assess telecom customer churn using historical data.
- Cleaned and modeled datasets with 500,000+ records using Pandas and NumPy.
- Built churn prediction models using Scikit-learn, achieving 89% accuracy.
- Conducted feature engineering and hyperparameter tuning for performance gains.
- Delivered insights via Python visualizations and created a reusable predictive analytics framework.

ACADEMIC PROJECTS

Factors Influencing Student Academic Performance

- Tools: Python, SQL, R, AWS S3
- Analyzed 395 student records to identify drivers of academic performance.
- Conducted survey instrument analysis to identify question redundancies and improve data collection.
- Created dashboards and Excel-based reports with actionable insights for educators and policy advisors.

Optimizing Airline Passenger Satisfaction

- Tools: Apache Spark MLlib, Databricks, MongoDB, Python, PySpark
- Built machine learning models to predict passenger satisfaction.
- Achieved 92% model accuracy using Gradient Boosted Trees in a distributed computing environment.

Performance Analysis of KNN and Collaborative Filtering in Movie Recommendation Systems

- **Tools:** Python (NumPy, Pandas, Scikit-learn)
- Compared KNN and Collaborative Filtering using MovieLens dataset.
- Demonstrated that CF yielded 18% better accuracy and runtime performance than KNN.

EDUCATION

George Mason University — *Jan 2024 – Dec 2025*
M.S in Data Analytics Engineering — *Fairfax, VA*
Stanley College of Engineering & Technology for Women — *Jun 2018 – Jul 2022*
B.E in Computer Science Engineering — *Hyderabad, India*

CERTIFICATIONS

- AWS Academy Cloud Foundations.