

AATISH AROTE

Data Analyst | Data Engineer | Business Intelligence
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Professional Summary

Results-driven Data Analyst with expertise in designing end-to-end data pipelines, predictive modeling, and business intelligence solutions. Microsoft Certified (PL-300, DP-900, AZ-900) with proven skills in Python, SQL, Machine Learning, and data visualization. Demonstrated success translating complex datasets into strategic insights, optimizing ETL workflows, and deploying production-grade analytics solutions on cloud platforms.

Technical Skills

Programming & Databases: Python (Pandas, NumPy, Scikit-Learn), SQL (Window Functions), PostgreSQL, AWS RDS

Data Engineering: ETL Pipeline Design, Apache Spark, Apache Airflow, Data Modeling, Data Warehousing

Machine Learning & Stats: Regression, Classification, XGBoost, Random Forest, Hypothesis Testing, A/B Testing

BI & Visualization: Power BI (PL-300), DAX, Tableau, Dashboard Design, Data Storytelling, Advanced Excel

Cloud & DevOps: AWS (EC2, S3), Azure (AZ-900), Flask, Docker, Git/GitHub, CI/CD Concepts

Experience

Data Visualization Intern, Infosys Springboard (Remote) Sep 2025 – Dec 2025

- **Designed** advanced Power BI dashboard analyzing 150K+ records of global tourism data with optimized ETL processes and DAX calculations; recognized as top performer among 20 interns.
- **Built** scalable Flask web application integrating embedded analytics and Python-driven insights, automating data refresh workflows and reducing report generation time by 60%.
- **Presented** analytical findings and technical architecture to stakeholders, demonstrating data-driven recommendations that enhanced decision-making processes.

Projects

Real Estate Analytics & Price Prediction Python, ML, AWS

- Engineered end-to-end data pipeline processing 4,125+ property listings across 150+ locations with automated data cleaning, feature engineering, and outlier detection.
- Evaluated 11 regression algorithms using cross-validation; optimized Random Forest model via GridSearchCV achieving 90% R-squared and 22.4% performance improvement over baseline.
- Deployed production ML application on AWS EC2 with recommendation system, delivering real-time predictions and insights through RESTful API endpoints.

Global Tourism Analytics Platform Power BI, Flask, SQL

- Developed comprehensive analytics solution processing tourism data for 232 countries with normalized metrics and trend analysis capabilities.
- Created 3 interactive Power BI dashboards featuring heat maps, scatter plots, and time-series visualizations to identify tourism patterns and opportunities.
- Integrated embedded BI dashboards into Flask web application, enabling stakeholders to access dynamic reports and perform ad-hoc analysis.

Weather Data ETL Pipeline Spark, Airflow, PostgreSQL

- Architected automated ETL pipeline extracting weather data via OpenWeatherMap API, processing large-scale datasets using Apache Spark for transformation and aggregation.
- Orchestrated scheduled workflows with Apache Airflow for daily batch jobs, implementing error handling and data quality checks to ensure 99% pipeline reliability.

Education

B.E. in Computer Engineering, University of Mumbai Aug 2022 – May 2026
CGPA: 8.77/10

Certifications

Microsoft Certified: Power BI Data Analyst (PL-300) · Microsoft Certified: Azure Fundamentals (AZ-900) · Microsoft Certified: Data Fundamentals (DP-900) · AWS PartyRock Hackathon · Python for Beginners (Udemy)