Apurva Rajendra Shinde

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Skills

Programming: Python (pandas, NumPy, scikit-learn, statsmodels, requests, BeautifulSoup, Playwright), R, SQL, PostgreSQL, JavaScript (React, Next.js)

Data Engineering: ETL pipelines, dbt, Snowflake, Azure Data Factory, Schema Design, Data Wrangling, API Integration (Census API, REST APIs)

Analytics & Visualization: Power BI, Tableau, Alteryx, Excel (VLOOKUP, Pivot Tables, Conditional Formatting)

Statistical & Analytical Methods: Hypothesis testing, regression analysis, forecasting, survival analysis, anomaly detection, A/B testing

Core Strengths: Data storytelling, problem-solving, reconciliation of disparate datasets, leadership, collaboration

Work Experience

Sustainable Business Council, Wisconsin — Jan 2025 – Present
Power BI Developer and Privacy Analyst

- Designed and optimized SQL-based data models and dbt-powered ETL pipelines across Snowflake and PostgreSQL, enabling reliable ESG analytics and downstream ML use cases.
- Built and deployed interactive Power BI dashboards tracking sustainability KPIs, supporting real-time, data-driven decision-making for leadership and external stakeholders.
- Implemented data governance and privacy controls aligned with regulatory standards, improving ESG data transparency and compliance across reporting workflows.
- Extended role to support AI and web optimization initiatives, automating benchmarking and status reports, integrating AI-powered chatbot features, and analyzing website traffic and SEO metrics to improve user engagement.

University of Wisconsin–Milwaukee — Apr 2024 – May 2025
Data Analyst

- Performed statistical modeling and hypothesis testing using SPSS and Excel on mental health and demographic datasets, identifying trends to optimize student wellness programs.
- Developed Power BI and Tableau dashboards to visualize key health metrics in real time, improving insight accessibility for program administrators and decision-makers.
- Executed data cleaning, validation, and reconciliation processes to ensure high data quality, increasing the accuracy and reliability of analytical outputs.
- Automated recurring reporting workflows, reducing manual effort and improving efficiency in tracking program effectiveness and outcomes.

Dimensionless Technologies — Jun 2021 – Sep 2023
Machine Learning and BI Analyst

- Developed and deployed an Azure Cognitive Services Form Recognizer, training ML models to extract structured and unstructured invoice data with high accuracy.
- Designed and validated generalized machine learning pipelines capable of handling diverse invoice formats, improving data extraction accuracy by 30% and reducing manual entry errors.
- Conducted end-to-end model testing, feature refinement, and performance evaluation to ensure scalable and production-ready ML solutions.
- Integrated ML outputs with BI dashboards and reporting workflows, enabling timely insights and alignment with evolving business requirements.

Education

University of Wisconsin–Milwaukee — *Aug 2023 – May 2025*
Master of Science in Data Science — GPA: 3.74/4.0

Pune University — *Aug 2018 – Apr 2021*
Bachelor of Science in Statistics — GPA: 3.84/4.0

Project Work

- **Real Estate Risk Assessment:** Built a PySpark pipeline to ingest and transform market/demographic features into a unified warehouse, achieving 95% accuracy in classifying high/low-risk regions.
- **Statistical Study of Climate Change (Mumbai, India):** Conducted time-series and regression analysis of historical climate data using Python. Visualized temperature and precipitation trends, highlighting increasing frequency of extreme rain events.

Publications

- Shinde, A. (2023). **Bankruptcy Prediction Using Machine Learning and Data Preprocessing Techniques**. *MDPI Journal of Data*. Link