

# Shreya Vikas Kolte

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## Summary

Data Analyst with experience applying Python, SQL, Tableau, and Excel to drive data-informed decisions. Delivered insights on projects spanning 100K+ data points and reduced manual reporting time by 60% through automation. Skilled in data wrangling, visualization, and predictive modeling across finance, sustainability, and public sector domains.

## Education

**M.S. in Data Science** | **University of Arizona, Tucson, Arizona** | **GPA: 3.67 / 4.0** Aug 2023 - May 2025

Courses: Machine Learning (Statistical & Predictive Modeling), Data Mining (Data wrangling, Data integration), Data Analysis, Data Visualization, SQL and NOSQL Database Management, Data Ethics, R, Natural Language Processing (NLP).

**B.S. in Computer Science** | **Savitribai Phule Pune University, Pune, India** | **GPA: 3.65 / 4.0** Jul 2020 - Jun 2023

Courses: Python, SQL, Statistics, Introduction to Data Analysis, Data Science Foundation, Machine Learning Overview, Java, Mathematics (Linear Algebra, Numerical Analysis, Operations Research), Operating Systems.

## Experience

**Data Analyst Intern** | **University of Arizona, Tucson, Arizona** Jan 2025 – May 2025

R, QGIS, 3D Point Cloud Data Analysis, LiDAR

- Cleaned, wrangled, and processed over 100,000 LiDAR data points, extracting ecological features like tree height, volume, and biomass.
- Merged and georeferenced 10+ spatial datasets from ecological monitoring sources and created R and Excel visualizations to communicate multi-variable insights for scientific publications.

**Teaching Assistant** | **University of Arizona, Tucson, Arizona** Aug 2024 – Dec 2024

Python, Slack, Git, GitHub, Code debugging and troubleshooting

- Facilitated comprehension of data analysis techniques for 30+ students, resulting in an average project score increase of 15% and a 95% course completion rate, exceeding department benchmarks.
- Guided 30+ students in data analysis; enhanced data cleaning, transformation, and visualization skills using Pandas and Matplotlib, resulting in all students submitting final project on time.

## Projects

**Retail Inventory Forecasting** Jun 2025

- Implemented an end-to-end inventory tracking solution, which allowed the marketing team to improve the accuracy of identifying top-selling SKUs by 100%, reducing reliance on vendor reports.
- Built an interactive Power BI dashboard with custom KPIs, slicers, and visualizations, enabling actionable retail insights and streamlined executive reporting.

**US Trade and ETF Market Analysis** Apr 2025

- Extracted and analyzed U.S. trade and XLK ETF data using Python and Excel; selected Random Forest based on RMSE and R<sup>2</sup> metrics, improving forecast accuracy by 18% and reducing manual effort by 40%.
- Designed an interactive Tableau dashboard to visualize trade and ETF KPIs; automated monthly analysis with SQLite, improving reporting speed by 60% and uncovering low trade-ETF correlation for strategy alignment.

**EV Charging Trends and Predictions** Dec 2024

- Examined 100K+ rows of EV charging data and identified vehicle model and charger type as primary cost drivers, boosting pricing model accuracy by 15% and informing strategic rate decisions.
- Built and evaluated regression and SVM models; proposed data enrichment and pre-processing strategies projected to increase model accuracy by 25% and reduce analysis time by 30%.

**Global Terrorism Analysis and Forecasting** Aug 2024

- Improved terrorist attack forecasting accuracy by 15% by cleaning time series data, aggregating global incidents by region, and applying the ARIMA model to predict trends across a 10-year horizon.
- Optimized ARIMA model parameters through rigorous testing using MSE and RMSE, decreasing forecast error by 23% and improving the accuracy of geopolitical risk predictions.

## Skills

**Languages and Programming:** Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, SQLite3), SQL, R

**Data Analytics and BI Tools:** Tableau (Dashboards, KPIs), Power BI (DAX), Excel (VLOOKUP, Pivot Tables), Ad Hoc Analysis, Extract-Transform-Load (ETL)

**Databases, Platforms and Version Control:** MySQL, PostgreSQL, SQL Server, SQLite, NoSQL (MongoDB), Git, GitHub

**Statistical and Modeling Skills:** Predictive Modeling, Time Series Forecasting, Regression, Support Vector Machine (SVM), Exploratory Data Analysis

**Certifications:** **Coursera:** Data Analysis with Tableau, **NR Class LLP:** Python Programming, **Udemy:** R Programming Diploma.