

# SAI SHREYA JILLELLA

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## PROFESSIONAL SUMMARY

Data Analyst with 2+ years of experience in Python, SQL, Power BI, Tableau, and Azure Cloud, specializing in automated ETL workflows, data transformation, and predictive modeling. Proven ability to deliver actionable insights, improve data accuracy, and optimize processes to drive business decisions. Strong focus on building interactive dashboards and enabling data-driven solutions.

## TECHNICAL SKILLS

**Programming & Databases:** Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn), SQL (MySQL, PostgreSQL, Snowflake, Redshift), R, VBA.

**Data Analytics & BI Tools:** Power BI, Tableau, Looker, Google Data Studio, Excel (PivotTables, VLOOKUP, Power Query, Macros).

**Data Management & Engineering:** ETL, Data Cleaning, Data Transformation, Data Modeling, Data Warehousing, Forecasting, Reporting.

**Automation Cloud & Platforms:** Azure Synapse, AWS Analytics (Redshift, Athena, QuickSight), Snowflake, Jupyter, Git, Databricks

**Advanced Analytics & Modeling:** Statistical Analysis, Regression Analysis, Time Series Forecasting, Predictive Modeling, KPI Dashboards.

**Business & Finance Analytics:** Financial Reporting, Budget Analysis, Variance Analysis, Operational Analytics, Business Process Optimization, Stakeholder Communication.

## PROFESSIONAL EXPERIENCE

### Gen AI & Data Analytics Intern

Feb 2025 - Present

Reality AI | Remote

- Designed AI-powered Power BI dashboards with Python integration, improving student performance insights by 20%.
- Streamlined ETL pipelines using Python and SQL to ingest and prepare training/inference datasets, minimizing manual data handling by 30%.
- Conducted data analysis on model outputs and large-scale educational datasets using Pandas and Excel, increasing prediction accuracy by 15%.
- Collaborated with data scientists and software engineers to define precise data requirements and implement pipelines supporting model training and performance tracking.
- Developed KPI monitoring dashboards in Power BI and implemented data cleaning and feature engineering workflows in Python, accelerating model evaluation by 40% and ensuring 99% data quality consistency.

### Data Analyst Assistant

Sep 2023 - Dec 2024

SUNY Polytechnic Institute | Utica, NY

- Curated and validated research datasets using Python (Pandas) and SQL, decreasing reporting errors by 25% and expediting faculty data analysis.
- Crafted interactive Power BI and Tableau dashboards to visualize student and departmental metrics, improving decision-making efficiency by 20%.
- Executed predictive modeling and statistical analyses in Python and Excel, uncovering trends that optimized curriculum planning and boosted engagement by 15%.
- Built data aggregation and reporting pipelines using Python, SQL, and Excel Macros, cutting manual effort by 35% while ensuring accuracy.
- Conducted workshops on Power BI, Tableau, and Excel analytics, empowering faculty and students with data visualization skills and fostering data-driven decision-making practices.

### Data Analyst

May 2022 - Dec 2022

Hitachi | NY

- Extracted, transformed, and examined large operational and financial datasets using SQL and Python, enhancing reporting accuracy by 30%.
- Built interactive Power BI and Tableau dashboards consolidating key metrics, shortening manual reporting time by 40% and enabling faster decisions.
- Developed variance analysis and forecasting models in Excel and Python, providing actionable insights that reduced budget deviations by 15%.
- Engineered reporting workflows using Excel VBA and Macros, improving delivery efficiency by 35% and eliminating recurring errors.
- Defined and monitored KPIs with stakeholders and executed data validation and cleaning in Python and SQL, improving data quality and strengthening operational alignment.

## PROJECTS

### AI Code Documentation Assistant

- Developed a RAG-based chatbot using Python, NLP libraries, and Neo4j, enabling developers to retrieve technical documentation via natural language queries and improving information access speed.
- Automated document lookup, reducing manual search time by 50% and enhancing team productivity during onboarding and daily development workflows.

### Software Cost Estimation

- Built a predictive forecasting tool using Python and Random Forest regression to estimate project costs and evaluate budget risk scenarios, increasing cost prediction reliability by 30%.
- Created interactive Excel dashboards to visualize financial projections and risk metrics, empowering stakeholders to proactively monitor and adjust project plans.

### Model Comparison & Performance Review

- Benchmarked YOLOv7 and Faster R-CNN models on large video datasets, measuring speed, accuracy, and resource usage to recommend the optimal solution for real-time object detection.
- Recommended YOLOv7 for deployment, balancing inference speed and detection accuracy, and documented performance metrics and implementation guidelines for technical teams.

## EDUCATION

### M.S. in Computer & Information Science

Jan 2023-Dec 2024

SUNY Polytechnic Institute | Utica, NY

## CERTIFICATIONS & ACHIEVEMENTS

- Accenture North America **Data Analytics Simulation** - Virtual Program
- Microsoft Certified:** Azure Fundamentals
- Power BI (LUDIFU)** - Business Analytics Certification
- Data Analytics** - Simplilearn Online Program
- Hackathon Participant** - Data Science Society, SUNY Polytechnic
- Volunteer** - Techfest Hyderabad, organized student coding competitions
- Completed **13 Salesforce Trailhead badges**, earning **3,350 points** by learning **Salesforce fundamentals**, **data management**, and **automation** skills.