

Sam Tavalali

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Professional Summary

Technical data professional with over 3 years of experience designing and building data products and analytics solutions using Python and GitHub. Proficient in developing scalable data pipelines, transforming complex datasets, and delivering actionable insights to drive business outcomes. Skilled in software engineering best practices, including version control, CI/CD, and modular code design, with experience contributing to collaborative repositories. Passionate about creating robust, scalable data solutions in a product-focused technical role.

Technical Skills

Programming Languages: Python (PySpark, Pandas), SQL

Cloud & Data Platforms: Databricks, Snowflake, Azure, AWS

Workflow Orchestration: Airflow, Astronomer, Databricks Workflows

Data Visualization & Reporting: Power BI

Version Control & CI/CD: Git, GitHub, GitHub Actions, Pytest

Work Experience

84.51° (a subsidiary of The Kroger Co.)

Data Scientist

2022 – Present

- Built and maintained end-to-end analytics solutions using Python, Azure, and Power BI, optimizing pricing and ecommerce strategies for CPG clients managing multimillion-dollar budgets
- Owned technical planning and execution of new features in collaboration with cross-functional stakeholders; performed scientific reviews and implemented solutions in production-grade code
- Automated data input QA using Python, eliminating nearly all manual reruns and improving pipeline reliability
- Integrated Generative AI tools to automate code QA, reducing manual review effort and accelerating development workflows
- Conducted regular code reviews to ensure adherence to quality, performance, and accuracy standards

The Kroger Co. (Kroger Health)

Various Analyst Roles (Finance, Business, Asset Protection)

2017 – 2022

- Automated Excel-based reports using Power BI and SQL, reducing manual effort by 25% and improving reporting consistency
- Led development of COVID-19 reporting using SQL and Power BI for internal monitoring and decision-making
- Developed financial models to support profitability tracking across various initiatives

Personal Projects

Twitch Data Pipeline

Python, Astronomer, AWS, Docker, Grafana

Designed and deployed an end-to-end data pipeline tracking Twitch game viewership trends using Twitch's public API. Built a custom Python package containing code logic, orchestrated the pipeline via Astronomer on an AWS EC2 instance, stored data in S3 using Iceberg, and visualized trends via Grafana.

NLP Sentiment Analyzer

Hugging Face, Gradio, Python

Used a pretrained sentiment analysis model to classify text sentiment with confidence scoring. Built an interactive UI using Gradio.

GitHub Actions CI/CD Workflow

GitHub Actions, Pytest, Python

Created a CI/CD pipeline using GitHub Actions to automate testing and linting on code push. Wrote unit tests with Pytest to support collaborative, test-driven development.

Crypto Market Data Collector

Python, OOP, Coinbase API

Built a Python script to query crypto market data using Coinbase's public API. Focused on OOP principles and laid groundwork for future enhancements like backtesting and technical indicators.

Education

MBA, Northern Kentucky University

B.S., Zoology & Pre-Medical Studies, Miami University