Akash Jadonandan

Data Science | Machine Learning | Python | SQL | Data Analysis | Data Visualization | Big Data | AI

Location: New York, NY | **Phone**: (347) 549-0539

E-mail: akashjad9116@gmail.com | **LinkedIn**: https://www.linkedin.com/in/akashjad/

WORK EXPERIENCE - SQL, Data Analysis, Data Analytics, Data Visualization, Data Cleaning

Levian Corp.

Data Engineer / Analytics Developer - May 2022 to present

- Automated SQL + Power Automate workflows to reconcile inventory and sales reports, reducing processing time from 12 hours to 30 minutes and increasing SKU accuracy by 60%
- Rebuilt stored procedures with validation logic, cutting manual QA hours by 70% and improving data reliability for finance, marketing, sales and inventory reports
- Built executive dashboards in Power BI/Tableau, enabling daily tracking of revenue and inventory across 5 divisions; improved decision lead time by 60% allowing for restrategizing sales plans of unpopular inventory
- Integrated data from 3 ERP/CRM platforms into a unified warehouse schema, powering daily ops for 5 departments and reducing ML pipeline runtime by 40%
- Designed ETL framework for analytics-ready datasets used in forecasting and anomaly detection; reduced ad hoc data prep time by 80%

Full Stack Engineer - May 2021 to present

- Developed RESTful APIs and backend services in C# (.NET Core) for order tracking, inventory lookup, and automated reporting
- Refactored legacy codebase and improved database access layers, reducing backend query latency by up to 50%
- Built internal admin tools for sales, vendor management, and compliance auditing; accelerated cross-department workflows previously reliant on spreadsheets

PROJECTS - Data Science, Data Visualization, Data Analysis, Data Analytics, & Data Cleaning

S&P 500 Multi-Horizon Forecasting – Python, scikit-learn, LSTM, PCA, Neural Networks

- Created a machine learning pipeline using Random Forest for feature selection, PCA for dimensionality reduction, and SVR for short-term price prediction
- Achieved $R^2 = 0.89$, showing strong model reliability for internal backtesting; output used in simulated investment strategy benchmarking
- Added multi-horizon forecasts using LSTM, tested with walk-forward time-series validation to improve robustness
- Incorporated anomaly detection using Isolation Forest and K-Means to surface potentially manipulative trading activity in real-time
- Integrated predictions into reporting dashboards, improving ML adoption by non-technical users

Heart Failure Risk Model – Python, Apache Spark, Logistic Regression, Binary Classification, PCA

- Developed a binary classifier to estimate patient risk of heart failure using structured EHR data (AUC = 82.3%)
- Built scalable Spark pipeline with PCA-based feature compression to reduce model training time
- Identified key predictors (e.g., ejection fraction, age) for medical insights

U.S. vs Caribbean Mortality Analysis – Excel Power Query, Tableau, Feature Engineering

- Built interactive dashboard to compare mortality trends across geographies using public health data
- Engineered data joins and derived features to analyze links between cause-of-death and GDP, healthcare access, and education

EDUCATION

Saint Peter's University – Master of Science (MS): Data Science, *Summa Cum Laude (GPA 4.0)*, December 2024

- Focus on statistical analysis, machine learning, predictive modeling, and data visualization using Python and R

Adelphi University – Bachelor of Science (BS): Computer Science, *Summa Cum Laude (GPA 3.9)*, May 2020

- Concentrations in Software Engineering, Cyber Security, and Computer Graphics/Game Design

SKILLS

Languages: Python, SQL, R

ML Techniques: Regression, Time Series, Random Forest, PCA, LSTM, AUC, Anomaly Detection

Tools: Tableau, Power BI, Excel Power Query,, Git, REST APIs, pandas, NumPy, matplotlib, seaborn, scikit-learn, Spark

Data Engineering: ETL Pipelines, Power Automate, SQL Server, Data Warehousing

Certifications: ETL in Python & SQL (LinkedIn Learning, 2025)