Shad Patankar

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WORK EXPERIENCE

Tech Talent Pipeline Apprenticeship — May 2026 – Present

- Developed a Python ETL pipeline to ingest and clean **real-time** rideshare demand data; built interactive Tableau dashboards that visualized high-opportunity zones, directly contributing to a 20% increase in driver customer-acquisition speed and a 15% improvement in trip efficiency.

Milliman Data Analysis Intern — Sept 2025 – Feb 2026

- Leveraged data analytics techniques (**Python, Google BigQuery, and Looker**) to clean, manipulate, and visualize **over 10,000** commercial lines loss runs, identifying key trends in claims frequency and severity.
- Applied statistical methods (**decision trees, k-means clustering**) to analyze exposure data **across 500 policies** and support risk selection, providing **actionable insights** that informed pricing adjustments and underwriting guidelines

Aflac Summer Intern — July 2025 – Aug 2025

- Completed **60+ hours of accredited coursework** in Life, Health, and Accident Insurance.
- Applied **probabilistic modeling and risk assessment techniques** to analyze product profitability, supporting actuarial pricing strategies.
- Delivered a final presentation on findings, providing actionable insights to **optimize product offerings**.

Headstarter AI Fellow — July 2024 –Aug 2024

- Collaborated with industry leaders (Google, Meta, Amazon) in an intensive **data science and programming fellowship**, developing technical skills in **Python, HTML/CSS, and JavaScript**.
- Engineered **data-driven projects** to enhance analytical capabilities, including automation scripts and predictive models.

EDUCATION

Baruch College — December 2027

BBA, Computer Information Systems, Data Analytics — *Kips Bay, NY*

- **GPA: 3.5/4.0**
- **Baruch Actuarial Science Society** - **Led a team of 4** in developing a predictive model for auto insurance claims using **Excel, Python and R**, incorporating frequency/severity distributions to estimate loss reserves, and **presented findings to judges** (including actuaries from Aon, Milliman, and Liberty Mutual), justifying assumptions (e.g., lapse rates, mortality tables) and recommending data-driven business strategies.

PROJECTS

- **NYC Air Quality**- A full data warehouse complete with a scheduled ETL process that details AQI and Complaint relation. Includes interactive visualization integration through Looker.
- **Storm Risk Project**- Built a weather risk analysis tool using Rust and Python that quantifies risk scores from precipitation, temperature, wind, and weather conditions. Implemented SQLite for data storage and created visualizations to identify risk patterns over time.
- **AIG Actuarial Analyst Simulation (Forage)** – Analyzed 1,000+ Marine Liability claims using Python and Excel, applying experience-rating techniques to calculate risk-adjusted premiums and uncover a 12% pricing gap in high-exposure vessels.

SKILLS & INTERESTS

- **Technologies:** Python (Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn), SQL (BigQuery, PostgreSQL), R (tidyverse, caret), Rust, Excel (Advanced: VBA, PivotTables, Power Query), Tableau, Looker, Git/GitHub,
- **Skills:** Data Warehousing & ETL Pipelines, Statistical Modeling (GLMs, Decision Trees, K-Means Clustering), Risk Assessment & Loss Reserving, Experience Rating & Credibility Theory, Communication & Executive Presentations
- **Interests:** ICNA Volunteering, Fishing, Tutoring, Swimming (Ex. Lifeguard), Classical Literature