

Hemil Anipbhai Shah

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Analytical finance professional with **3+ year's experience of uniting machine learning, FP&A, and data driven analytics**. Skilled in Python, SQL, BI Tools, and MS Excel, with deep expertise in forecasting, budgeting, planning, equity research, portfolio management & optimization, and advanced accounting techniques and standards, **bridging the gap between quantitative finance and data analysis**.

EXPERIENCE

Financial Analyst

Jul 2024 - Current

Blackrock

United States

- Conducting **portfolio-level financial modeling, variance analysis, and NAV forecasting** for **multi-asset funds**, executed through **MS Excel and SQL**, improving **AUM growth tracking and benchmark outperformance insights** by tracking Sharpe ratio.
- Partnering with **cross-functional teams** within the Asset Management vertical for **optimizing monthly budgets allocation, AUM projections, and automating expense tracking mechanism**, reducing **operational costs** by 8%.
- Performing **equity research and asset valuation** across **\$500M+ multi-asset fund AUM**, using **Bloomberg Terminal, FactSet, and Python** generating an **alpha of 6%**, while simultaneously **minimizing the Beta by 20%**.
- Developed **7+ Tableau dashboards and scenario analyses** for **senior leadership**, providing insights on AUM growth, unutilized liquidity, cash flow & liquidity forecasting, portfolio stress testing, and market trends, **enabling proactive risk management**.
- Leveraging **machine learning algorithms** to **forecast equity performance**, resulting in **improved CAGR/IRR by 20-30%** in private wealth management vertical.

Data Analyst

April 2021 - Dec 2022

Cognizant

India

- **Engineered scalable ETL pipelines** using **SQL, Python, Apache Spark** enhancing **data reliability by 25%** and **accelerating the reporting process by 40%**, which enabled faster business decisions.
- Delivered **11+ interactive dashboards & reports with KPIs**, developed in **Power BI** for Heads of Commercial Banking Team with 20k+ records, uncovering insights that supported **\$30M+ cost savings** and improved **operational efficiency**.
- Optimized **fixed-income instruments product performance** by conducting EDA on investment securities data, developing statistical forecasting models, and validating strategies through A/B testing, **achieving a 10% reduction in portfolio volatility**.
- Built **time-series forecasting** for customer deposits and withdrawal patterns, enhancing liquidity planning and capital allocation, **resulting in maximized Net Interest Margin (NIM)** for retail/consumer banking vertical.
- Developed and fine-tuned a random forest model for **credit approval prediction in retail banking**, improving prediction accuracy by 15%, reducing loan default risk, **enhancing loan portfolio quality**.

EDUCATION

Syracuse University

Syracuse, NY

MS in Computer & Information Sciences

Jan 2023 - May 2024

Coursework: Machine Learning for Macroeconomics, Data Analysis & Decision Making, NLP, Data Mining, Artificial Intelligence in Finance

Gujarat Technological University

Gujarat, India

BE in Computer Engineering

Aug 2018 - May 2022

Coursework: Discrete Mathematics, Probability & Statistics, Principles of Economics & Management, Python Programming for Data Science, Linear Algebra & Calculus, Database Management Systems, Data Structures & Algorithms, Data Visualization, Cloud Computing

TECHNICAL SKILLS

Programming Languages & IDEs:	Python, SQL, R, Jupyter Notebook, Google Collab, VS Code, PyCharm
Statistical Analysis Tools:	A/B Testing, Regression Analysis, Descriptive and Inferential Statistics, Hypothesis Testing
Cloud Technologies & Database:	MySQL, MongoDB, Snowflake, BigQuery, DynamoDB, MS Azure, AWS, Databricks, GitHub
BI, Visualization & MS Tools:	Power BI, Tableau, MS PowerPoint, MS Word, MS Office, QuickBooks, Alteryx, Hadoop, SAP
Financial Concepts & Skills:	Valuation Modeling (DCF), Fixed Income Instruments, Treasury & Cash Management, Scenario Evaluation & Stress Testing, Economic Feasibility Assessment, Ratio Analysis, Regulatory & Compliance Reporting, ESG & Sustainable Finance, Financial Statement Analysis, GAAP & IFRS Standards, Variance Analysis

PROJECTS

Customer & Product Trend Analysis on Walmart Sales Data | [GitHub](#)

- Analyzed **100k+ Walmart sales transactions using SQL Server**, performing ETL, feature engineering, statistical analysis to uncover customer, product, and branch-level insights, **identifying revenue growth opportunities and better supply chain management**.

Credit Card Transaction Insights Dashboard | [GitHub](#)

- Built **automated Power BI dashboard** with SQL Server & ML models to **analyze 200k+ credit card transactions**, predicting customer spending patterns and **decreasing loan default risk by 30%**.

Crisis Impact on Economic Indicators Analysis Using ML | [GitHub](#)

- Performed **Time series analysis on unemployment & labor force data** from FRED (52 U.S. states), leveraging Python to visualize crisis-driven trends, **including an 8% unemployment surge in NY & CA during economic downturns**.