

ANUJ KUMAR SHAH

Queens, NY 11377 | (929) 682-5049 | anuz.shah260@gmail.com

[LinkedIn](#) | [anuzz.com](#)

PROFESSIONAL SUMMARY

Seasoned Data Engineer and Financial Analyst with 5+ years of experience architecting end-to-end data platforms, predictive models, and BI solutions in both startup and enterprise environments. Expert in AWS, Azure, big-data frameworks, real-time streaming, and machine learning—combined with deep domain knowledge of equity, derivatives, FX, and options markets. Proven track record of transforming raw datasets into high-impact insights that drive revenue growth and operational efficiency.

- Designed and maintained ETL/ELT pipelines processing 10 TB+ of transactional and market data monthly, achieving 99.9% reliability.
 - Deployed TimeGPT, ARIMA, LSTM, and Prophet models on S&P 500 time-series, delivering 95% directional accuracy and reducing MAPE by 12%.
 - Built real-time streaming analytics with Kafka and Spark Streaming, cutting data latency by 70%.
 - Developed interactive dashboards in Power BI and Tableau that increased trading desk performance by 12%.
-

PROFESSIONAL EXPERIENCE

Junior Analyst, Raptor Tech Dynamics LLC

New York, NY | 7/2024 – Present

- Architect and operate scalable ETL pipelines using AWS Glue, Azure Data Factory, and Apache Airflow to ingest 15 TB+ of mixed-source data monthly.
- Implement real-time streaming with Kafka, Spark Structured Streaming, and Kinesis, slashing end-to-end latency to under 5 minutes.
- Collaborate with quants and data scientists to productionize time-series forecasting models (ARIMA, TimeGPT, LSTM) on S&P 500, achieving 95% directional accuracy.
- Design and deliver Power BI & Tableau dashboards for equity, options, and currency trading analytics—empowering stakeholders to boost P&L by 12%.
- Enforce data governance, CI/CD, and infrastructure as code using Terraform, GitHub Actions, Docker, and Kubernetes—tripling deployment frequency with zero-downtime.

Quantitative Trader & Financial Market Analyst (Self-Employed)

Remote | 08/2017 – 12/2024

- Engineered automated backtesting frameworks in Python (pandas, backtrader) for multi-asset strategies, securing a 1:2 risk-reward ratio and 60%-win rate.
- Developed machine learning pipelines (Random Forest, XGBoost, Neural Networks) in scikit-learn and TensorFlow, optimizing portfolio returns by 15% annualized.
- Processed and analyzed real-time market feeds via AWS Kinesis, Redshift, and Azure Event Hubs, handling 5 GB+ of tick and end-of-day data daily.
- Executed fundamental and technical analyses on equities, derivatives, FX, and options—translating insights into algorithmic trading signals and risk limits.

Co-Founder & Lead Data Engineer, Najeek Solutions Pvt Ltd

Kathmandu, Nepal | 09/2022 – 08/2023

- Designed and delivered big-data architectures on Hadoop, Spark, and Kafka for 10+ enterprise clients, driving 20% year-over-year revenue growth.
- Led a team of 3 to build robust ELT workflows, data lakes (AWS S3, Azure Data Lake Storage), and warehousing solutions, reducing ingest time by 40%.
- Created interactive client dashboards with React, D3.js, and Tableau that elevated executive decision-making and improved user adoption by 50%.
- Instituted comprehensive data quality frameworks and governance policies, achieving 99.8% data accuracy across platforms.

Python Developer, Verisoft Technologies Pvt Ltd |

Lalitpur, Nepal | 01/2019 – 08/2021

- Engineered RESTful APIs in Node.js and .NET Core, integrating PostgreSQL and MongoDB for 5+ mission-critical web applications.
 - Built dynamic React front-ends with Chart.js and D3.js visualizations, boosting page-load performance by 30%.
 - Automated CI/CD pipelines using Jenkins, Docker, and Kubernetes—enabling zero-downtime deployments across staging and production.
-

SELECTED PROJECTS

S&P 500 Time-Series Forecasting (Master's Thesis at Yeshiva University) ([GitHub](#))

- Built and compared ARIMA, Prophet, TimeGPT, and LSTM models in Python, achieving 95% directional accuracy on hold-out data and a 12% reduction in MAPE.
- Deployed top-performing model via Azure ML pipelines and AWS SageMaker endpoints for near-real-time predictions.

Credit Risk Modeling Platform (Najeek Solutions)

- Developed end-to-end Spark pipelines and Airflow DAGs to engineer features and train XGBoost and logistic regression models—attaining 89% AUC.
- Integrated model scoring into client dashboards, enabling risk teams to monitor default probabilities in real time.

Inverse Kinematics Analysis (Research Paper for Bachelors Major Project at NIT-Bhopal) ([GitHub](#))

- Designed data-collection architecture and Python-based analysis tools to compare FABRIK and neural network methods for robotic motion planning.
- Presented performance insights via Matplotlib visualizations, influencing algorithm selection in robotics coursework.

EDUCATION

Master of Science in Data Analytics & Visualization

Yeshiva University, Katz School | NYC | May 2025 | GPA: 3.9/4.0

Bachelor of Technology, Computer Science & Engineering

NIT Bhopal | Bhopal, India | Oct 2021 | GPA: 3.8/4.0

CERTIFICATIONS & CANDIDACY

- AWS Certified Cloud Practitioner
- AWS Certified Solutions Architect – Associate
- Microsoft Certified: Azure Data Engineer Associate
- Microsoft Certified: Azure Fundamentals
- DataCamp: Data Analyst, Data Engineer & Data Scientist Certifications
- CFA Level I Candidate (Exam: August 2025)

TECHNICAL SKILLS

- **Data Engineering & Big Data:** ETL/ELT, Data Lakes, Warehousing, Spark, Hadoop, Kafka, Airflow, Azure Data Factory, AWS Glue
- **Cloud & Infrastructure:** AWS (S3, Redshift, Lambda, Kinesis, EMR), Azure (Data Lake, Synapse, ML), Terraform, Docker, Kubernetes, GitHub Actions
- **Programming & Scripting:** Python (pandas, NumPy, scikit-learn, TensorFlow), SQL (T-SQL, PL/pgSQL), Java, JavaScript (React, Node.js), C++
- **Machine Learning & Analytics:** Time Series (ARIMA, Prophet, TimeGPT, LSTM), Regression, Classification, Clustering, XGBoost
- **Databases & BI:** PostgreSQL, MySQL, MongoDB, DynamoDB, Snowflake, Power BI, Tableau, D3.js
- **Financial Domain:** Equity & Derivatives Trading, Options Strategies, FX Markets, Fundamental & Technical Analysis, Backtesting Frameworks

INTERESTS & ACTIVITIES

Behavioral Psychology • Space & Travel • Spirituality & Philosophy (Existentialism, Metaphysics, Epistemology)
Member, Spiritual Kabir Ashram (Kabir Saheb's Philosophy)

References available upon request