MEET SHAH

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OBJECTIVE

Motivated and detail-oriented Master's student in Computer Science with a strong foundation in machine learning, deep learning, and statistical modeling. Experienced in developing predictive models, computer vision solutions, and data-driven strategies to solve complex problems. Passionate about leveraging neural networks and advanced analytics to drive impactful business decisions.

EDUCATION

The University of Texas at Arlington (UTA) | M.S. - Computer Science | Texas, USA **Aug 2023 – May 2025**
P P Savani University (PPSU)| B. Eng. - Computer Engineering | Gujarat, India **Jun 2018 – May 2022**

SKILLS

Programming Languages: Python, SQL
Frameworks & Libraries: Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Pytorch, TensorFlow, Keras, Hugging Face
Data Engineering: ETL Development, Data Pipelines, SQL Server, Databases (MySQL, PostgreSQL, MongoDB)
Machine Learning & Algorithms: Supervised & Unsupervised Learning, Decision Trees, Naive Bayes, Neural Networks, Deep Learning, NLP, Transformers, CNN, RNN, LSTM
Cloud & DevOps Tech Stack: AWS (S3, EC2, Lambda), Docker, Kubernetes, Terraform
Analytics Tools: PowerBI, Tableau, Apache Spark (PySpark, Spark SQL), Apache Hadoop (HDFS)
Others: Data Visualization, Exploratory Data Analysis
Non-Technical skills: Client-facing consulting experience, Requirement gathering and analysis, Off-shore team management

EXPERIENCE

Elite Technocrats **Feb 2023 – Jun 2023**
Jr. Data Analyst **Gujarat, India**

- **Tools Used:** Python, Polars, FastAPI, Django, SQL, PostgreSQL
- Engineered an automated trading **application (EXE) in Python**, achieving **95% trade execution accuracy** by leveraging multiple stock market strategies for real-time trading.
- Integrated stock market APIs to fetch real-time data and execute trades, ensuring **optimal position sizing** and **precise alignment with algorithmic conditions**, leading to consistent and **successful** trading outcomes.
- Designed and implemented **risk management algorithms** to dynamically adjust position sizing and enforce stop-loss mechanisms, reducing potential losses by **30%** while enhancing trade stability and capital protection.
- Built a **responsive and intuitive interface** for strategy configuration, live trade monitoring, and reporting, streamlining the user experience and increasing trader adoption by **40%** through enhanced usability and accessibility.
- Created **interactive dashboards** with real-time visualizations, offering deep insights into **profit/loss, trade frequency, and risk exposure** while integrating filters and drill-down capabilities, reducing decision-making time by **25%**.
- Developed a **scalable backend** with Python and Django, optimizing data flow and execution efficiency while supporting **10+ trading strategies** (e.g., ORB) and enabling **comprehensive backtesting** on **20 years** of historical stock data for performance evaluation.
- Processed and structured **1M+ stock market records** from Jainam Company, designing an **optimized** Python script to extract key trading parameters (stock symbols, expiry dates, CE/PE) for enhanced data analysis.
- Optimized an **existing backtesting system**, achieving an **80% speed improvement** by replacing the Pandas library with **Polars**, significantly enhancing data processing efficiency.

Covered by Sage **Aug 2021 - Jan 2022**
SRE (Site Reliability Engineer) **Remote-work**

- **Tools Used:** Linux, Bash, AWS (S3, lambda), Docker, Kubernetes, Terraform
- Proficient in containerization and deployment using Docker, demonstrated by the ability to convert files/applications into images and store them in a Docker file, ensuring seamless and consistent deployment across various environments.
- Command over AWS services like Routing, S3 bucket management, and Lambda function deployment.
- Demonstrated proficiency in Microsoft services through the creation and management of YAML files.
- Streamlined CI/CD pipelines with YAML-based configurations, enhancing deployment efficiency and reducing manual intervention by 50%.

PROJECTS

Dynamic Pricing Optimization for E-commerce

- Developed a **reinforcement learning-based pricing model** using **Deep Q-Learning** to optimize product prices based on demand, competition, and historical sales data.
- Built a **simulation environment** for testing strategies, stored pricing history in **PostgreSQL**, and compared **RL-driven pricing** with traditional models to evaluate performance.

AI-Powered Resume Analyzer & Job Match Recommender

- Engineered an **NLP-powered system** using **Hugging Face models** to extract skills and experience via **Named Entity Recognition (NER)** and match resumes with job descriptions.
- Deployed as a **FastAPI service** for real-time job recommendations, storing and retrieving resumes in **PostgreSQL** for efficient processing.

Automated Financial News Sentiment Analysis for Stock Movement Prediction

- Developed an **NLP-powered system** using **BERT** to analyze real-time financial news sentiment, correlate scores with stock price changes, and generate predictive insights. Built a **FastAPI-based API** for real-time predictions with **MongoDB** for efficient data storage.
- Designed interactive **PowerBI dashboards** to visualize sentiment trends and stock performance, enabling data-driven decision-making in financial markets.