NAWAZISH K S M

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EDUCATION

Syracuse University - Information School, Syracuse, NY, USA
Master of Science in Applied Data Science (Specialization in Data Science and Machine Learning)
- Coursework: Machine Learning, Big Data Analytics, Financial Analytics, Accounting Analytics, Deep Learning, Quantitative Reasoning, Business Analytics, Responsible AI, Database Management

GITAM University - School Of Technology
Bachelor of Technology in Computer Science and Engineering

WORK EXPERIENCE

Research Analyst, Syracuse University   **Jun 2025 - Present**
- Architected and managed **scalable PySpark data pipelines** for a drone-based delivery network, **automating route optimization for 100+ service areas** and reducing latency in last-mile logistics.
- Developed drone delivery algorithms using **OpenWeatherMap** for predictive modeling, ensuring safe and efficient routing under variable weather conditions.
- Optimized model training for limited hardware by applying **quantization** (8-bit), mixed precision (fp16).
- Automated large-scale tokenization leveraging **memory-mapped arrays** and streaming techniques to process datasets exceeding system memory

Co-Founder, Prosh   **Jan 2025 - June 2026**
- Orchestrated database **schema migrations** and data integrity checks, ensuring zero-downtime updates during major feature rollouts.
- Designed a resilient **authentication system** with JWT-based auth and refresh token rotation, successfully resolving critical cross-domain cookie vulnerabilities to ensure secure, persistent user sessions.

Data Scientist, Aptean   **Mar 2022 - Mar 2023**
- Built 10+ dashboards in **Tableau and Power BI (Power Query, DAX),** providing real-time insights for business operations
- Maintained data processes using **Excel (Pivot Tables, VLOOKUP, Macros)**, and **Access (Query Design, Forms, Reports)**
- Executed data cleaning, transformation, and pattern detection using **Pandas, NumPy, and Regular Expressions**
- Led r**oot cause analysis sessions** with stakeholders to identify and resolve data inconsistencies
- Documented business processes and **created detailed specifications** for data integration solutions, improving knowledge transfer and system sustainability

Founding Data Scientist, Interaktive XR Solutions   **Jan 2021 - Mar 2022**
- Played a foundational role in **establishing technical processes** and methodologies, including version control and code review practices, which improved team efficiency and code quality
- Pioneered developing and **standardizing analytical processes** and BI methodologies, including interactive data visualization dashboards, exploratory data analysis protocols, and reporting frameworks
- Built CI/CD workflows using GitHub and Jenkins, automating ML pipelines and Terraform scripts for reproducibility
- Developed **ML customer risk models** with Scikit-learn & XGBoost, achieving 85%+ accuracy in churn prediction
- Streamlined ETL processes, reducing data processing time by 35% with Python, SQL, MS Excel and Salesforce CRM

ACADEMIC PROJECTS

HnM Fashion Recommendation System | (Deep Learning) (GitHub)
- Engineered a Two-Tower deep learning model integrating multimodal data (text, visuals), enhancing recommendation accuracy by 12%
- Deployed real-time recommendation pipelines with TensorFlow, doubling click-through rates for users

Price Elasticity Modeling and Optimization | (Big Data) (GitHub)
- Designed a non-linear Price Elasticity Modeling solution for a shoe manufacturer using PySpark for modeling and SciPy for optimization to determine optimal shoe pricing, increasing sales volume by 1.6%
- Optimized the PySpark model using L-BFGS-B and SLSQP methods in SciPy, increasing revenue by 4%

Predicting Options Price | (Data Science and Machine Learning) (GitHub)
- Developed a machine learning model to predict the last price valuation of SPX options using 2023 options chain data, enabling traders to optimize exit strategies and maximize profitability

Dashboards | (Financial Analysis)
- Engineered R-Based and Python Based Dashboards (KFIN) , (KDASH)

TECHNICAL SKILLS

- **Programming:** Python, R, Unix, HTML/CSS, SQL, Powershell
- **Databases:** MySQLPostgreSQL, SQLite, SSMS
- **Data/ML Engineering Frameworks:** TensorFlow, PySpark, XGBoost, Scala, Apache (Flask, Spark, Kafka)
- **Tools:** Tableau, Power BI, Git, Jira, MS Excel, Snowflake, Docker,Salesforce CRM, Terraform,
- **Domain Knowledge:** Computer Science, Business Growth, Customer Service, 3D Solutions, Drone Operations