NAWAZISH KHALANDER SHAIK MOHAMMED

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EDUCATION

Syracuse University - Ischool Syracuse, New York, USA   **Aug 2023 - May 2025**
Master of Science in Applied Data Science (Specialization in Data Science and Machine Learning)
Relevant Coursework: Machine Learning, Big Data Analytics, Financial Analytics, Accounting Analytics, Deep Learning, Quantitative Reasoning, Business Analytics, Responsible AI, Database Management, Introduction to Data Science

GITAM University - School Of Technology, India   **Aug 2023 - May 2025**
Bachelor of Technology in Computer Science and Engineering

WORK EXPERIENCE

Data Analyst, Aptean - Bengaluru   **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)**
- Enhanced **ETL** pipelines and workflows using **PySpark** and **Snowflake** for cloud-based data warehouse solutions
- Conducted **data cleaning, transformation, and pattern detection** using **Pandas, NumPy, and Regular Expressions**
- Improved data efficiency by 40% through **ETL** processes and **AWS (Lambda, S3, KMS, CloudWatch, CloudTrail)**
- Developed **ML customer risk models** with **Scikit-learn & XGBoost**, achieving **85%+ accuracy** in churn prediction
- Conducted **data validation** and **root cause analysis** using **SQL, Python, and Kafka** reducing data discrepancies by 20%

Founding Data Scientist, Interaktive.io - Remote   **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
- Built robust **CI/CD** workflows using **GitHub** and **Jenkins**, managing automated **ML pipelines** and **Terraform** scripts for reproducibility
- Played a **foundational role** in developing and standardizing **analytical processes** and **BI methodologies**, including interactive **data visualization** dashboards, **exploratory** data **analysis** protocols, and **reporting frameworks**
- Built **real-time customer dashboards** using **Python, SQL, and Power BI**, processing **fiver data points**
- Devised machine learning models engaging **TensorFlow** and **scikit-learn** to perform predictive analytics, increasing accuracy of forecasts by 30% and permitting more effective business strategies
- Optimized performance by tuning **SQL** queries, refining Azure settings, and streamlining **Azure Data Factory** workflows
- Automated **compliance reports** via **Apache Airflow**, cutting processing time from **6 hours to 30 mins**
- Utilized **Spark & Hadoop** for large-scale **environmental data processing**, accelerating analysis **5x on 1TB+ datasets**
- Created an **NLP chatbot** using **Python, NLTK, and PyTorch**, reducing manual queries by 3x and enhancing automation.
- Automated **ETL** processes, reducing HR data processing time by 35% with **Python, SQL, MS Excel and Salesforce CRM**

ACADEMIC PROJECTS

HnM Fashion Recommendation System| (Deep Learning) [GitHub]   **Aug 2024 - Nov 2024**
- 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]   **Aug 2024 - Nov 2024**
- 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]   **Jan 2024 - Apr 2024**
- 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
- Engineered R-Based and Python Based Dashboards [KFIN] , [KDASH]

TECHNICAL SKILLS AND CERTIFICATIONS

- **Programming:** Python, R, Java, Unix, HTML/CSS, C, C++, JavaScript, SQL, Powershell
- **Databases:** MySQL, PL/SQL, OracleDB, MongoDB, PostgreSQL, SQLite, SSMS,
- **Data/ML Engineering Frameworks:** TensorFlow, Keras, Scikit-learn, Numpy, PySpark, XGBoost, OpenCV, HuggingFace, Scala, RAG, LangChain, PyTorch, Airflow, Apache (Flask, Spark, Kafka)
- **Tools:** Tableau, Power BI, QlikView, Looker, Git, Jira, Hadoop, MS Excel, MS Access, Streamlit, RStudio, Jupyter, VS Code, PyCharm, Linux, Databricks, SharePoint, dbt, Power Apps, Snowflake, Docker, Vercel, SAS
- **Cloud/Deployment:** Azure (Data Lake, EventHubs, ML, Synapse Analytics, Data Factory), GCP (BigQuery, Dataflow, Vertex AI), AWS (Sagemaker, Lambda, Redshift, S3, ECS, CloudFormation, Glue)
- **Domain Knowledge:** STEM, Math, Computer Science, Business Growth, Customer Service, Develop Solutions, 3D Solutions