

MOHAMMAD SAAD KHAN

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PROFILE SUMMARY

Data Scientist with 5 years of experience developing machine learning and AI solutions for complex business and operational challenges. Experienced in predictive modeling, forecasting, Generative AI, LLMs, RAG, Python, SQL, and cloud technologies. Skilled in building production-ready ML systems, automating workflows, and transforming large-scale data into actionable insights. Strong problem-solving and communication skills, with the ability to explain technical concepts to different audiences.

TECHNICAL SKILLS

PROGRAMMING: Python • SQL

MACHINE LEARNING: Regression • Classification • Forecasting • Deep Learning • NLP

GENERATIVE AI: LLMs • RAG • LangChain • LangGraph • AI Agents • Prompt Engineering

FRAMEWORKS & LIBRARIES: Scikit-learn • TensorFlow • PyTorch • Pandas • NumPy • FastAPI

DATA ENGINEERING: Data Cleaning • Feature Engineering • ETL Pipelines

CLOUD & DEVOPS: AWS • Azure • Docker • Kubernetes

TOOLS: Git • Jupyter Notebook • Jira

DATABASES: MySQL • PostgreSQL • MongoDB

VISUALIZATION: Power BI • Tableau • Plotly

PROFESSIONAL EXPERIENCE

Data Scientist – NavSim Technologies, St John’s, NL, Canada

June 2021 – June 2026

- Owned end to end lifecycle of production machine learning systems for maritime navigation
- Built and maintained FastAPI services that enabled production systems to consume machine learning predictions through secure API endpoints
- Compared model predictions against live navigation data to identify drift, errors, and weak prediction areas
- Developed forecasting systems to estimate vessel behaviour when GPS or satellite signals were limited
- Integrated LLMs into internal workflows for maritime data interpretation and automation
- Built RAG pipelines for intelligent document search and contextual information retrieval
- Applied prompt engineering techniques to improve response quality and reduce manual analysis work.

- Improved model performance through feature engineering, outlier detection, hyperparameter tuning, and cross-validation
- Developed automated test cases to verify prediction accuracy and system stability before production release
- Developed automated Python scripts for data preparation, preprocessing, and model experimentation, reducing manual effort and improving workflow efficiency

EDUCATION

Master of Science (M.Sc.) in Computer Engineering

Memorial University of Newfoundland | St. John's, NL, Canada | 2018 – 2021

Bachelor of Technology (B.Tech.) in Information Technology

Jamia Hamdard University | New Delhi, India | 2013 – 2017