

Md. Shahrin Nakkhatra

Machine Learning Engineer & Data Scientist



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💡 PROFESSIONAL SUMMARY

Machine Learning Engineer with 5+ years of experience building and deploying end-to-end ML systems, managing data pipelines, and leading AI initiatives. Proven track record in customer analytics, computer vision, and NLP. Seeking tech leadership roles to drive innovation and build high-performing teams.

🎓 EDUCATION

Bangladesh University of Engineering and Technology (BUET)

Bachelor of Science in Mechanical Engineering

Dhaka, Bangladesh

July 2014 - April 2019

🏢 PROFESSIONAL EXPERIENCE

Robi Axiata Limited

Associate Manager, AI & Data Science

Dhaka, Bangladesh

October 2024 - Present

- Developed social media sentiment analysis tool tracking sentiment, intent, emotion, and issues from Facebook comments from Robi, Airtel, Banglalink, and Grameenphone Facebook pages - Built live tableau dashboard presenting insights
- Created automated SLT KPI monitoring app with database versioning, file-based KPI calculations, UI filtering, and monthly email reporting for senior leadership (Band A-C)
- Engineered My Robi app inactive user profiling system to segment dormant users and deliver personalized re-engagement offers based on usage patterns
- Built RAG-based procurement chatbot using financial documents (policies, LOAs, procedures) with vector embeddings for accurate context retrieval and query responses

Optimizely

Machine Learning Data Engineer - Level 2

Remote (US/UK)

June 2022 - September 2024

- Built end-to-end customer churn prediction system using time series analysis on product usage data, addressing class imbalance and data quality challenges
- Architected automated ML pipeline on AWS with monthly retraining, model selection, and deployment using Docker, Kubernetes (Kustomize), and Argo Workflows
- Implemented CI/CD pipeline via GitHub Actions and managed three-tier data architecture (RAW/STAGING/REPORTING) in Snowflake with DBT transformations
- Integrated LIME for model explainability and delivered actionable insights to stakeholders through automated reporting dashboard

NybSys

Machine Learning Engineer

Dhaka, Bangladesh

October 2021 - May 2022

- Enhanced multi-model surveillance platform (Survello) with anomaly detection, loitering, object counting, mask detection, and motion tracking using multiprocessing
- Developed real-time drowsiness detection system using facial landmarks and eye aspect ratio analysis with alert mechanisms
- Led end-to-end development of smartphone-based fall detection app including data collection, synthetic data generation, and on-device ML model deployment
- Maintained and migrated NybFace IoT-based face recognition API to edge devices for improved latency and offline capability

Avery Dennison

Global Product Development Officer

Dhaka, Bangladesh

March 2020 - September 2021

- Managed product lifecycle from quotation to production setup in Oracle database, collaborating with supply chain for material sourcing and product re-engineering

RESEARCH & NOTABLE PROJECTS

Bengali CommonVoice Dataset: Co-led creation of largest open-source Bengali speech dataset included in Mozilla CommonVoice (CC0 license). Published research paper with EDA analysis and organized DL-Sprint Kaggle competition. *Tech:* Wav2vec2 XLS-R, Kaldi, Nemo — Paper — Dataset

Vehicle Detection & Tracking System (Omdena - Remote): Built 9-class vehicle detection and tracking system with relative velocity measurement for Bangladesh roads using YOLO v4 and DeepSORT. Developed custom vehicle detection model for Bangladesh-specific vehicles (CNG, rickshaws) with real-time estimation from dashboard camera footage. Solution deployed by partner company (sigmind.ai) for BGMEA in Export Processing Zone. *July 2021 - August 2021* — GitHub — Demo Video

TECHNICAL SKILLS

Languages: Python, MATLAB, C, C++, Bash, SQL

ML/DL Frameworks: PyTorch, TensorFlow, Keras

MLOps & Cloud: Docker, Kubernetes, GitHub CI/CD, AWS (EC2, SageMaker), Snowflake, DBT

Data Science: Pandas, PySpark

Visualization: Matplotlib, Plotly, Seaborn, Bokeh

Version control: Git

API: Flask

COURSES & CERTIFICATIONS

Certificates available at: github.com/Nakkhatra/Certifications

Machine Learning: Stanford University (Coursera) - Foundations, algorithms, and mathematics

Deep Learning Specialization: Stanford University (Coursera) - Neural networks, hyperparameter tuning, optimization