Abdullah Saihan

Artificial Intelligence Engineer

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EDUCATION

KHULNA UNIVERSITY OF ENGINEERING & TECHNOLOGY

BS in Mechatronics Engineering
Khulna, Bangladesh

SKILLS

Languages: Python, Javascript, C++

Operating System: Fedora, Windows

Cloud: AWS VPC, EC2, S3, Bedrock

ML Frameworks: Pytorch, Tensorflow, Langgraph, Transformers, Scikit-Learn, DsPy, Catalyst, OpenCV, Ultralytics

Web: FastAPI, Flask, ExpressJs, Html, CSS

Database: PostgreSQL, ClickHouse, MySQL MongoDB, Redis

Tools: Docker, Nginx, Git, Gitlab/Github, Github Actions, Postman, Prometheus, Grafana, MLFlow, W&B, Apache Airflow, Langfuse, DVC

IoT: PlatformIO, MQTT, Modbus, ESP, Arduino, Embedded C/C++, UART, I2C

COURSEWORK

Machine Learning
Image Processing and Machine Vision
Software Development
C Programming
Numerical Analysis and Statistics

LINKS

Email: **saihan0176@gmail.com**
Kaggle: **abdullahsaihan**
Github: **SaihanTaki**
LinkedIn: **saihantaki**
Twitter: **SaihanTaki**
Phone: **+8801762156479**

CERTIFICATIONS

Deep Learning Specialization
DeepLearning.AI on Coursera
Issued September 2022
Credential Hyperlink: **Certificate**

Machine Learning
Stanford on Coursera
Issued September 2020
Credential Hyperlink: **Certificate**

BANGLALINK

ARTIFICIAL INTELLIGENCE ENGINEER
April 2025 -

- Developed an intent classification and reporting system to analyze customer queries and support data-driven decision-making.
- Optimized large-scale data processing workflows to handle millions of data points efficiently.
- Conducted detailed error analysis to identify failure patterns and improve model performance.
- Building ETL pipelines using Apache Airflow for reliable data orchestration.
- Developing an end-to-end MLOps pipeline covering training, evaluation, and deployment workflows.

NAGORIK TECHNOLOGIES LIMITED

MACHINE LEARNING ENGINEER
January 2025 - March 2025

- Designed the system architecture for an AI-powered chatbot platform.
- Implemented server sent event (SSE) for LLM streaming using FastAPI.
- Fine tuned Stable Diffusion for image generation.

GRIT TECHNOLOGIES LIMITED

MACHINE LEARNING AND IoT ENGINEER
June 2024 - December 2024

- Developed a nlp system using aws bedrock, huggingface and FastAPI.
- Developed a STT-LLM-TTS system for a voice ai application.
- Deployed the system on AWS EC2 and S3 using Docker Swarm.
- Automated the deployment using a CI/CD pipeline with github actions.
- Built an IoT system to collect data from an mRTU via RS485 using ESP32.
- Developed firmware to enable Modbus communication on an IoT device.
- Deployed and configured an Eclipse Mosquitto MQTT broker on AWS EC2 instance for real-time pub/sub messaging.
- Utilized Prometheus and Grafana for monitoring and visualizing system performance, ensuring optimized operations and quick issue resolution.

PROJECTS

TORCHMATE | PYTORCH, CI/CD, WANDB, DEEP LEARNING

A high level pytorch training and utility library for efficient training with mixed precision, gradient techniques, and callbacks. Integrates experiment tracking and research paper modules for streamlined research. Github Documentation PyPI

CUSTOMER CARE CALL ANALYSIS PLATFORM | MLFLOW, PYTORCH, MS SQL, VECTOR EMBEDDING, CONCURRENCY, LANGFUSE

AI-driven platform for automated analysis of customer care calls, including transcription, categorization, summarization, and agent performance. evaluation

- Designed and built an AI-powered call analytics platform for high-volume customer care operations using batch processing.
- Developed intent classification models to categorize customer queries and identify common call patterns.
- Built AI-based agent performance evaluation covering behavioral analysis, information accuracy, and quality assurance.