

KAISER HAMID RABBI

[in LinkedIn](#) | [+8801644611605](tel:+8801644611605) | [Portfolio](#) | kaiser.hamid.rabbi@gmail.com | [GitHub](#) | [LeetCode](#)

Skills

- **Computer Vision** | Natural Language Processing | Large Language Models | **Real-time ML** | Reinforcement Learning | GAN
- Problem Solving | **Data Structures** | **Algorithms** | System Design | Quantum Computing | Python | **PyTorch** | Tensorflow

Experience

Senior Software Engineer

[@TIGERIT](#)

Dhaka, Bangladesh 10/2019 - Current

- Pinpointed optimal AI models (**YoloV7**, **ResNet50**, **DeepSort**) for Bangladesh's **Automatic Number Plate Recognition System**, boosting number plate detection & tracking *accuracy by 95%*, streamlining traffic management for millions.
- Integrated cutting-edge Instance-Aware Domain Generalization (IADG) into **Facial Recognition System**, thwarting sophisticated spoofing attempts and safeguarding Rohingya registration and national security operations.
- **Clustered 1.2 million Rohingya facial embeddings** for efficient search and recognition in just *3 months*. This empowered TigerIT HRM, Election Commission, National Identity Card, and Passport with lightning-fast identity verification.
- Crafted a custom 3,000-image dataset for robust **Crowd Counting**, encompassing diverse camera views, resolutions, and crowd densities. Integrated online videos, and CCTV footage to fuel AI-powered crowd analysis for public safety.
- Led a **12-engineer team** to craft revolutionary NLP models, boosting **RASA** chatbot performance and enabling *Bengali voice command recognition*. Empowered users with natural, language-specific interactions, and skyrocketing engagement.
- Architected cloud-based deployments using *Docker* and *Kubernetes*, flawlessly integrating voice technology into website backends. This resulted in *92% ASR accuracy* and *4.5/5 TTS naturalness*, setting a new standard for natural voice experiences.
- Facial Recognition, Automatic Number Plate Recognition, Crowd Counting, and Action Recognition in action [here](#).

Data Scientist

[@UPSKILLABLE](#)

Dhaka, Bangladesh 07/2019 - 09/2019

- Built & deployed AI-powered **Recommendation Systems** using *Auto-Encoder* & *Boltzmann Machines*, *matching talents with ideal roles* and boosting successful placements by *25%*. This data-driven approach empowered both candidates and recruiters, streamlining the hiring process, and maximizing career satisfaction and engagement.

Software Engineer

[@DREAMERZ LAB](#)

Dhaka, Bangladesh 01/2019 - 06/2019

- Transformed the cloth-retail landscape with *AttireLab*, an **Augmented Reality** app for virtual clothing try-ons, eliminating fitting room hassles and empowering customers with convenient, personalized shopping experiences & increasing satisfaction.

Education

Master of Science

Otto-von-Guericke Universität

Germany 2015 - 2018

- Machine Learning, Data Mining, Big Data Storage and Processing, Recommendation System, Information Retrieval, Distributed Database Management, and Advanced Database Model. Major: *Data and Knowledge Engineering*.

Bachelor of Science

Ahsanullah University of Science & Technology

Bangladesh 2010 - 2014

- Data Structure, Algorithms, Numerical Methods, Artificial Intelligence, Data Communication, Computer Graphics, Pattern Recognition, Discrete Mathematics, and Object-Oriented Programming.

Others

- Sharpening Data Structures and Algorithms on **LeetCode** & HackerRank, aspiring for scalable system design mastery.
- Keyboard maestro - ⚡ **100+ WPM** typing fuels lightning-fast efficiency, ranked in the top elite *1% percentile*.
- Created **Battle of Hatirjheel** (*multiplayer FPS*) and **Demon Slayer** (*AR adventure*) games with Unity and Blender.
- Author of 4 AI & Deep Learning courses on **Udemy** & **Packt**, guiding aspiring tech minds through cutting-edge concepts.