

Minhaz Bin Farukee

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EDUCATION

University of Texas at Arlington

Arlington, TX

PhD in Computer Science

August 2023 – August 2027(Expected)

Research Focus: Natrual Language Processing, Machine Learning, Human Computer Interaction

Rajshahi University of Engineering and Technology

Rajshahi, Bangladesh

BSc in Computer Science & Engineering

January 2016 – February 2021

EXPERIENCE

Graduate Research and Teaching Assistant

August 2023 – Present

University of Texas at Arlington

Arlington, TX

- Mentored students across "Introduction to Data Science" and "Database Systems," leading hands-on labs to teach complex data analysis, machine learning in Python and advanced query writing in SQL

Machine Learning Engineer

October 2021 - July 2023

Advanced Chemical Industries (ACI) Ltd

Dhaka, Bangladesh

- Engineered an AI-powered solution for real-time video analysis from a multi-camera network in a retail environment, automatically generating comprehensive customer engagement reports on a dynamic floor plan to replace manual monitoring.
- Designed and built a voice-controlled virtual assistant with conversational AI, featuring speech-to-text, text-to-speech, and facial recognition capabilities for personalized user interaction.
- Developed a PyTorch deep learning model to accurately recognize handwritten medicine names within medical prescriptions and deployed it in a mobile app.

Junior Data Scientist

April 2021 - September 2021

KONA Software Lab

Dhaka, Bangladesh

- Contributed to the research and development of a hybrid coupon recommender engine (collaborative & content-based), helping build the final system pipeline currently serving 100,000+ users in South Korea
- Designed and implemented an end-to-end data pipeline for customer segmentation using RFM analysis and various clustering methods to identify and categorize key customer groups.

Intern

April 2019 - May 2019

Huawei Technologies

Shenzen, China

- Gained hands-on experience configuring and testing experimental 4G and 5G base stations through dedicated training in a Huawei Lab environment.

SELECTED PUBLICATIONS

- **Minhaz Bin Farukee**, Fillia Makedon "*HEGXIS: Heterogeneous Graph Network for Explainable Multi-Intent Detection and Slot Filling*" Under review at ACL Rolling Review - January 2026
- **Minhaz Bin Farukee**, Maisha Maimuna, Sama Nikanfar, Ayon Roy, Mahfuza Siddiqua and Fillia Makedon "*NavVI: A Telerobotic Simulation with Multimodal Feedback for Visually Impaired Navigation in Warehouse Environments*" arXiv preprint arXiv:2507.15072v1 (2025)
- Enamul Karim, Maisha Maimuna, **Minhaz Bin Farukee** and Fillia Makedon "*Mindful Assistant: Personalized Assistance in Daily Living Activities for Individuals with Paralysis via Multimodal Cognitive Fatigue Assessment.*", Under review at ACM Transactions on Accessible Computing (TACCESS)
- Enamul Karim, Maisha Maimuna, Ayon Roy, **Minhaz Bin Farukee**, Gaurav Nale and Fillia Makedon "*An Adaptive Robotic Framework for Assisting People with Paralysis in Daily Living Activities*", Pervasive Technologies Related to Assistive Environments(PETRA),2025
- **Minhaz Bin Farukee**, M. S. Zaman Shabit, Md. Rakibul Haque,A. H. M. Sarowar Sattar "*DDoS Attack Detection in IoT Networks Using Deep Learning Models Combined with Random Forest as Feature Selector*"2nd International Conference on Advances in Cyber Security,2020

SKILLS

Python,C,C++,OpenMP,MySQL,Tensorflow,Pytorch,PySpark,Unity,Flutter,Flask,Docker,MATLAB,OpenCV