

Md Faisal Kabir

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RESEARCH INTERESTS

Machine Learning — Innovating algorithms and techniques to enhance predictive modeling, data analysis and pattern recognition for more efficient and accurate outcomes.

Artificial Intelligence, Generative AI — Developing intelligent systems to tackle complex tasks, enhance decision-making and improve human-computer interaction across various applications.

Deep Learning — Advancing neural network architectures and training methods to solve complex problems in areas like computer vision and natural language processing.

Human-Computer Interaction (HCI) — Focusing on designing intuitive, user-centric interfaces, exploring innovative interaction techniques, and integrating AI to enhance digital experiences and usability.

SKILLS

Technical Skills — Programming Languages: Python, C, C++, C# | **Machine Learning Frameworks:** TensorFlow, Keras, OpenCV, PyTorch, Scikit-learn, Rasa | **Data Analysis Tools:** Pandas, NumPy, Matplotlib, Seaborn, SQL | **Software and Platforms:** Anaconda, Jupyter Notebook, Google Colab, VS Code, Spyder, Git, Docker, AWS, Google Cloud Platform

Research Skills — Experimental Design | Data Collection and Preprocessing | Statistical Analysis | Model Evaluation | Technical Writing | Collaboration and Communication

PROFESSIONAL EXPERIENCE

Machine Learning Engineer 2024 – present | Dhaka, Bangladesh
Genuity Systems Limited
Specialized in developing AI solutions for Image Processing and Natural Language challenges, with a focus on **"Computer Vision, ChatBot & VoiceBot(ASR)"** building using LLM.

Software Engineer 2023 – 2024 | Dhaka, Bangladesh
Edu Maker
Worked on several projects using **"AI, ML & DL"**. In addition, I worked as a trainer for **"AR, VR, AI, ML & DL"**.

Research Intern 2022 – 2023 | Kharagpur, West Bengal, India
Kharagpur Learning, Imaging & Visualization (KLIV) research group, (IITKGP)
The research develops methods for **"Identifying and Segmenting Optical Images"** to enhance automated interpretation across different modalities. This aims to improve augmented reality, predictive systems and patient comfort in medical settings.

Research Intern 2022 – 2023 | Dhaka, Bangladesh
Pathao
Research and develop a solution to **"Parse and Standardize Addresses"** from internal and open sources (e.g., OpenStreetMap) for improved user readability, geocoding, and searchability.

Trainee AI/ML/DL Engineer 2022 – 2022 | Kharagpur, WestBengal, India
Indian Institute of Technology Kharagpur (IITKGP)
A fully funded 3-month training by "The Govt of India and Bangladesh Hi-Tech Park Authority (BHTPA)" under the "Establishment of Bangladesh-Bharat Digital Services and Employment Training (BDSET)" project, focusing on **"Artificial Intelligence, Machine Learning, and Deep Learning"** technologies.

Trainee AR/VR Developer 2022 – 2022 | Guwahati, Assam, India
Indian Institute of Technology Guwahati (IITG)
A fully funded 2-month training by "The Govt of India and Bangladesh Hi-Tech Park Authority (BHTPA)" under the "BDSET" project, focusing on **"Augmented Reality, Virtual Reality, Mixed reality and Extended reality"** technologies.

Instructor (Computer Technology) 2021 – 2022 | Dhaka, Bangladesh
National Institute of Engineering & Technology (NIET)
Oversee an academic department, including curriculum development, student advisement, class scheduling, and supervising teaching, research and other scholarly activities.

AI Researcher/Developer 2020 – 2021 | Dhaka, Bangladesh
Docusem
Responsible for researching & developing an **"IDM"** (Intelligent Data management) system. Working on a fully automated **"IDR"** (Intelligent Data Reader) which can understand and segment the data on its own.

AI Apprentice 2020 – 2020 | Dhaka, Bangladesh
cWork Microjob Limited
Responsible for developing a conversational AI **ChatBot** using Rasa.

Undergraduate Teaching Assistant 2016 – 2018 | Dhaka, Bangladesh
Daffodil International University

EDUCATION

B.Sc in CSE 2018 | Dhaka, Bangladesh
Daffodil International University
CGPA: 3.53 out of 4

Higher Secondary Certificate (HSC) 2013 | Rajshahi, Bangladesh
Varendra College Rajshahi
CA Award (For Wonderful Result: CGPA 5.00 out of 5.00), Sonali Bank Ltd