



Md Rakibul Hasan Molla

Software Engineer

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📍 Dhaka, Bangladesh

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PROFILE

Experienced AI professional skilled in developing RESTful APIs, automation with Python and Selenium, chatbots using NLP and deep learning models, speech recognizer using Kaldi, document/PDF extractors, and image processing algorithms. Collaborates effectively with cross-functional teams, conducts experiments, fine-tunes models, and contributes to open-source AI projects.

EXPERTISE

Programming Languages

Python, Java, JavaScript

Backend Development

Django, Flask

Test Automation Tools

Selenium, Karate, Cucumber

Automation Tools

PyAutoGUI, Python-Selenium

Chatbot development

RASA and other NLP libraries:

Version control

Git/Github, GitLab

Computer Vision Libraries

OpenCV, PIL, Scikit-image

Database

SQL, MySQL, MongoDB

Frontend Development

ReactJS, Redux, Bootstrap, HTML, CSS

Machine Learning Frameworks/Toolkit

TensorFlow, Keras, PyTorch, Scikit-learn, Kaldi, Rasa

Data analysis and manipulation

Pandas, PySpark

Recommender system development

Collaborative filtering and Apriori algorithm

Cloud deployment

Docker

NLP Libraries

NLTK, Spacy

PROFESSIONAL EXPERIENCE

2021 - present

Dhaka, Bangladesh

Software Engineer

BRAC IT Services Ltd. 

- Led a team of Python developers in the development of a data analytics, automation and chatbot platform for a major client
- Developed RESTful APIs using Django Rest framework to support various web applications and services
- Created task automation tools using Selenium, PyAutoGUI, and Machine Learning to improve efficiency and reduce manual labor
- Designed and developed a chatbot using NLP and deep learning models, such as LSTM and Transformer, to improve customer engagement and support
- Built document and PDF extraction tools using OpenCV and Tesseract OCR to facilitate data processing and analysis
- Utilized image processing and computer vision techniques using OpenCV, PIL, and Scikit-image to develop image recognition and analysis applications

- Worked on machine learning projects using TensorFlow, Keras, PyTorch, and Scikit-learn to develop predictive models and analysis tools
- Implemented multiprocessing to optimize project performance resulting in a 4-6x increase in processing speed
- Collaborated with cross-functional teams to solve complex problems and drive innovation

2021 – 2021
Dhaka, Bangladesh

Machine Learning Engineer

Evaly.com Ltd [🔗](#)

- Developed a recommender system using Apriori algorithms to enhance the user experience and increase sales
- Conducted data analysis and manipulation using PySpark and Pandas to support various business needs
- Worked with the development team to integrate the recommender system into the E-commerce website
- Conducted extensive testing and validation to ensure the accuracy and reliability of the recommender system

2020 – 2021
Dhaka, Bangladesh

Software Engineer

Genuity Systems Ltd. [🔗](#)

- Developed a chatbot using RASA and other NLP libraries to provide customer support and improve customer satisfaction
- Collaborated with the team to design and implement various NLP features, such as sentiment analysis and intent recognition
- Developed a speech recognition system using Kaldi for a research project.
- Conducted testing and validation to ensure the accuracy and reliability of the chatbot

EDUCATION

2016 – 2020
Khulna, Bangladesh

B.Sc. in Computer Science and Engineering

Khulna University [🔗](#)

CGPA: 3.09

PUBLICATIONS

2020

Dynamic Facility Layout Problem Using Chemical Reaction Optimization [🔗](#)

IEEE

"Dynamic Facility Layout Problem Using Chemical Reaction Optimization," 2020 4th International Conference on Computer, Communication and Signal Processing (ICCCSP), Chennai, India, 2020.DOI:10.1109/ICCCSP49186.2020.9315277

COURSES

2018

Introduction to Data Science [🔗](#)

Coursera

Grade: 93.75%

AWARDS

2019

Winner, Hackathon, CSE FEST 2019

Khulna University

2017

Winner, Hackathon, CSE FEST 2017

Khulna University