

# Md Rakibul Hasan Molla *Software Engineer*

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📍 Dhaka, Bangladesh

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🐙 rakibo6



Experienced AI professional skilled in developing RESTful APIs, automation with Python and Selenium, chatbots using NLP and deep learning models, 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

### Test Automation Tools

Selenium, Karate, Cucumber

### Chatbot development

RASA and other NLP libraries:

### Computer Vision

#### Libraries

OpenCV, PIL, Scikit-image

### Database

SQL, MySQL, MongoDB

### Machine Learning

#### Frameworks

TensorFlow, Keras, PyTorch, Scikit-learn

### Recommender system development

Collaborative filtering and Apriori algorithm

### NLP Libraries

NLTK, Spacy

### Backend Development

Django, Flask

### Automation Tools

PyAutoGUI, Python-Selenium

### Version control

Git/Github, GitLab

### Frontend Development

ReactJS, Redux, Bootstrap, HTML, CSS

### Data analysis and manipulation

Pandas, PySpark

### Cloud deployment

Docker

## 📁 Professional Experience

### 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

2021 – present  
Dhaka, Bangladesh

- Collaborated with cross-functional teams to solve complex problems and drive innovation

#### **Machine Learning Engineer, Evaly.com Ltd**

2021 – 2021  
Dhaka, Bangladesh

- 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

#### **Software Engineer, Genuity Systems Ltd.**

2020 – 2021  
Dhaka, Bangladesh

- 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

**B.Sc. in Computer Science and Engineering, Khulna University**   
CGPA: 3.09

2016 – 2020  
Khulna, Bangladesh

### Publications

#### **Dynamic Facility Layout Problem Using Chemical Reaction Optimization, IEEE**

2020

"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

**Introduction to Data Science, Coursera**   
Grade: 93.75%

2018

### Awards

**Winner, Hackathon, CSE FEST 2019, Khulna University**

2019

**Winner, Hackathon, CSE FEST 2017, Khulna University**

2017

### References

**Mohammed Moinul Hasan, Technical Manager, FinSource Limited**  
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**Ferdous Bin Ali, Lead Data Scientist, RAENA**  
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