

# Md Rakibul Hasan Molla

## Software Engineer



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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.

### Education

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

2016 – 2020 | Khulna, Bangladesh

CGPA: 3.09

### Professional Experience

**Software Engineer, BRAC IT Services Ltd.**

2021 – present | Dhaka, Bangladesh

- 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

**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

## Expertise

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**Programming Languages** (Python, Java, JavaScript),

**Database** (SQL, MySQL, MongoDB),

**Backend Development** (Django, Flask),

**Frontend Development** (ReactJS, Redux, Bootstrap, HTML, CSS),

**Test Automation Tools** (Selenium, Karate, Cucumber),

**Machine Learning Frameworks/Toolkit** (TensorFlow, Keras, PyTorch, Scikit-learn, Kaldi, Rasa),

**Automation Tools** (PyAutoGUI, Python-Selenium),

**Data analysis and manipulation** (Pandas, PySpark),

**Chatbot development** (RASA and other NLP libraries:),

**Recommender system development** (Collaborative filtering and Apriori algorithm),

**Version control** (Git/Github, GitLab),

**Cloud deployment** (Docker),

**Computer Vision Libraries** (OpenCV, PIL, Scikit-image),

**NLP Libraries** (NLTK, Spacy)

## Awards

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

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

**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

## Publications

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**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

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**Introduction to Data Science, Coursera**

2018

Grade: 93.75%

## References

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