Md Rakibul Hasan Molla *Software Engineer*

✉ rakibul.hsn47@gmail.com   📞 +8801950641081

📍 Dhaka, Bangladesh   in rakibcseku

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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

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

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 2021 – 2021

Evaly.com Ltd ⧉ 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 2020 – 2021

Genuity Systems Ltd. ⧉ 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 2016 – 2020

Khulna University ⧉ Khulna, Bangladesh

CGPA: 3.09

Publications

Dynamic Facility Layout Problem Using Chemical Reaction Optimization ⧉ 2020

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

Introduction to Data Science ⧉   2018
Coursera
Grade: 93.75%

Awards

Winner, Hackathon, CSE FEST 2019   2019
Khulna University

Winner, Hackathon, CSE FEST 2017   2017
Khulna University

References

Mohammed Moinul Hasan, *Technical Manager*, FinSource Limited
moinul.hasan@hotmail.com, +8801732640333

Ferdous Bin Ali, *Lead Data Scientist*, RAENA
hridoyferdous@yahoo.com, +8801675615851