Md Rakibul Hasan Molla

Software Engineer

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Summary

2+ years of experience in building **data-intensive** applications, and capable of developing, testing, and deploying applications to convert the business into substantial deliverables. Able to grasp new concepts quickly, and passionate Software Engineer with experience in Computer Science, Programming, Machine Learning, and Software Development. Proficient in Data Science with focusing on Feature Engineering, Data Preprocessing, Predictive Modeling, Data Analytics, Web Scraping, Robotic Process Automation(RPA), and **Python** programming language.

Recent Work Experience

Software Engineer   Oct 21 - Present

BRAC IT Services Limited

- Developing customized **Robotic Process Automation** software for financial institutions using **Python** and **SQL Server**.
- Building **Machine Learning** and **NLP**-based projects for customer care solutions.
- Developing **APIs** for chatbots using **Django.**
- Integrated WSDL W**eb Service** for RPA task finished notifications.

Machine Learning Engineer   Jun 21 - Sep 21

Evaly.com Ltd.

- Utilized analytical and technical expertise to provide **insights and proposals** to support business improvements.
- Developed recommender systems and data analytics for personalized product home page using **Machine Learning tools, i.e. SciKit-Learn.**
- Processed and extracted features from structured and semi-structured large datasets using **PySpark.**
- Emplied **AWS EC2** service for data preprocessing and model training.
- Developed **Personalized Recommender Systems** using **Python** and **Machine Learning** frameworks.

Software Engineer   Oct 20 - May 21

Genuity Systems Ltd.

- Worked on telecommunication-based companies and banks to make **Contextual Chabot** for improving customer services from scratch. I worked on **data preprocessing**, **cleaning**, **feature extractions**, **deploying models**, **data visualization**, **performance dashboards**, and more. This Chabot could talk according to context, could identify a user and reply based on his previous transactions, and answer the FAQs.
- Worked for **Machine Learning** team to **analyze**, **design**, and **develop** banking and data-intensive software and digital services including but not limited to customer service **analytics**, and text summarizations.
- Built **APIs** using **Flask** to analyze chatbot performance based on replies and visualize it on the client's dashboard.

Recent Project

- **Django (Python):** I work on multi-vendor e-commerce, education, and more sites written in Python(Django). Some of them were deployed on **Heroku**.
  Publicly Available Django projects: github.com/search?q=user%3Arakib06+django
  Available Live Demo: exam-player.herokuapp.com username: rakib; password: abcd@123

- **AI Chatbot:** To provide better customer support, my current company is focused to make Artificial Intelligent Chatbots for their telecom and banking customers. I worked on this project from scratch for data analysis and visualization. This chatbot could answer frequently asked questions, could talk according to context, could identify a user, and also reply based on user info like account balance, last transactions, etc.

- **Recommender System:** For Ecommerce, recommending the right products is important but different people have different tastes. For that reason, we need a personalized recommender system using customer behavior and relevant information that depicts the customer's taste. Processing a large volume of data, finding insights from it, and making a Machine Learning inference was a challenging as well as satisfying experience for me to perform my best.

- **Robotic Process Automation and PDF Extraction:** In many aspects, data entry is a very annoying task but I must say that it might be an interesting job if anyone can make it automated. For financial organizations, there's always a headache to manage a huge amount of data, entries from one application to another and manually process a sensitive decision. At BRAC IT, I had to work on this kind of project and now there are several stable versions for different kinds of RPA and PDF extraction.

Online Platforms

HackerRank:

Solved 65+ problems using **Python** and gained **Python**(Basic) **Certificate**. Currently, I am at the **Gold L**evel in Python.
Profile: hackerrank.com/rockib47
Certificate: hackerrank.com/certificates/c87750bff65d

Sololearn:

Completed various courses including **Python**, gained certificates, and one of my favorite sites to learn more about programming with fun. Currently at **Level-10**.
Profile: sololearn.com/profile/17784170

Leetcode:

Recently started **solving problems** on Leetcode using **Python** and it has become my favorite pastime.
Profile: leetcode.com/rakibul47

Coursera:

Completed "**Introduction to Data Science** in **Python**, **University of Michigan**" Course on Jul 06, 2018.
Grade Achieved: **93.75%**
Certificate: coursera.org/account/accomplishments/certificate/8ZYUP9QNW9ZL

Education

B.Sc. Eng. in CSE
Jan 2016 - Mar 2020

Khulna University, Bangladesh

CGPA: 3.09 out of 4.00

Higher Secondary Certificate (Equivalent to A Level)
Passing Year - 2015

Government Sundarban Adarsha College, Khulna

GPA: 4.92 out of 5.00

Secondary School Certificate (Equivalent to O Level)
Passing Year - 2013

Khulna Zilla School, Khulna

GPA: 5.00 out of 5.00

Professional Skills

Languages	Python, JavaScript
Front-End Technologies	HTML5, CSS, JQuery
Web Framework	Django, Flask
Databases	Relational: MySQL, SQL NoSQL: MongoDB
Test Automation	Selenium
Web Scrapping	BeautifulSoup, Scrapy
Data Preprocessing	Pandas, NumPy
Machine Learning	SciKit-Learn, TensorFlow
Data Visualization	Matplotlib, Networkx
Large-Scale Data Processing	PySpark
Version Control System	Git

Publication

"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

Language Skills

	Reading	Writing	Speaking	Listening
English	Fluent	Proficient	Proficient	Fluent
Bangla	Native	Native	Native	Native

Awards

- **Winner**
  Hackathon, CSE FEST 2019, Khulna University.
- **Winner**
  Hackathon, CSE FEST 2017, Khulna University.
- **Finalist**
  Student to Startup Bangladesh Chapter 1.
- **Finalist**
  Banglalink SDG Hackathon 2020.

Volunteer Experience

Anchor
CSE Fest 2019, Khulna University.

Coordinator
SKILL DEVELOPMENT FOR GAME & APPLICATION TRAINING - ICT Division, Bangladesh.

Anchor
CSE Fest 2017, Khulna University.

References

Dr. Md. Rafiqul Islam

Professor,

CSE Discipline, Khulna University.

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Mohammed Moinul Hasan

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