

MACHINE LEARNING ENGINEER

Matikata, Dhaka Cantonment, Dhaka (1206), Bangladesh

□ (+880) 152-1210-329 | ■ mollahsabbir@gmail.com | • mollahsabbir | • mollahsabbir

Summary.

A professional with expertise in **Machine Learning** and **Deep Learning** research and development. The current stack includes **PyTorch**, scikitlearn, pandas, and Apache Spark. Currently working as **"Software Engineer, Machine Learning"** at **Apurba Technologies Ltd.**

Experience

Apurba Technologies Ltd.

Dhaka, Bangladesh

SOFTWARE ENGINEER, MACHINE LEARNING

Sep. 2022 - Present

• My primary responsibilities in this job are designing, developing, researching and documenting **Machine Learning based solutions**.

Apurba-NSU R&D Lab

Dhaka, Bangladesh

PART-TIME RESEARCH ASSISTANT

- Published a paper which improves performance of OCR models on morphologically languages like Bangla.
- · Worked with several NLP based projects.

ECE Department, North South University

Dhaka, Bangladesh

Sep. 2021 - Aug. 2022

PART-TIME LAB INSTRUCTOR

Spring 2022 & Summer 2022

- Taught Database Management Systems (DBMS) using SQL and Object-Oriented Programming (OOP) using Java to an average class size of 40 students.
- Prepared lab materials and provided exam questions; examined students' answer scripts.
- · Provided assessment and guidance to students as they worked on their projects.

Education

North South University

Dhaka, Bangladesh

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Jan. 2017 - May. 2021

- Graduated with Magna Cum Laude distinction, CGPA 3.73/4.00.,
- Thesis title: Domain Adaptation on Speaker Recognition Problem with RawNet.
- Relevant Courses: Pattern Recognition and Neural Network, Natural Language Processing, Introduction to Linear Algebra.

BAF Shaheen College Kurmitola

Dhaka, Bangladesh

HSC

• GPA: 5.00/5.00.

Rajoir Gopalgonj KJS Pilot Institution

Dhaka, Bngladesh

SSC

• GPA: **5.00/5.00**.

2012 - 2014

2014 - 2016

Skills

Programming Proficient in **Python**, C, C++ and Java. Knows C#, PHP and Javascript.

Development Proficient in Clean Coding concepts and Object Oriented Design Patterns.

Machine Learning Experience working with **PyTorch**, **Keras**, scikit-learn, pandas, pyspark and matplotlib. **Database** Intermediate to advanced level Database Management System knowledge using **MySQL**.

Version Controlling Well-read on the best practices of Version Controlling using **Git**.

Communications A skilled communicator who is comfortable speaking in public and writing papers.

Languages Bangla, English and Italian.

Volunteering Experience

NSU ACM Student Chapter

Dhaka, Bangladesh

CHAIR

Jan. 2020 - Dec. 2020

- Elected as the Chapter Chair.
- Lead this community of 300+ members.
- · Planned and organized HackNSU Season 2, an inter-university Hackathon with more than 25 participating teams.
- I have been awarded Best Member twice during my general membership period.

NOVEMBER 11, 2022 SABBIR MOLLAH · CURRICULUM VITAE

NSU Communications Club Dhaka, Bangladesh

SUB EXECUTIVE Jan. 2018 - Dec. 2019

- · Lead the Promotions team responsible for digital advertisement.
- Increased outreach by creating creative videos using video editing tools.
- Created banners, covers, and logos for different events using graphics designing tools.

Workshops Dhaka, Bangladesh 2020, 2021, 2022

INSTRUCTOR

- Workshop on Deep Learning with PyTorch 2022
- The First Layers of Neural Networks Workshop 2021
- Python for the Parseltongues Workshop 2020

Achievements & Awards

Robi, Axiata Ltd., Dhaka, **Robi Datathon 2.0** Bangladesh

FINALISTS

· Among top 25 out of 384 teams.,

- · Plotted geographic maps using geospatial data.
- Optimized pyspark queries for faster queries on large data.
- Implemented cost sensitive learning to bump performance of a machine learning model.

MIST Inter-University ICT Innovation Fest Hackathon

CHAMPIONS 2021

- · Deployed a handwriting recognition model.,
- · Designed a handwriting identification model.

NSU IEEE Student Branch, Dhaka, **IOT For Tomorrow**

Bangladesh

2018

2022

MIST, Dhaka, Bangladesh

FIRST RUNNERS-UP

Presented a fire detection circuit using a microcontroller integrated with Firebase.

NSU IEEE Student Branch INSB. Electrathon Dhaka, Bangladesh

2ND RUNNERS-UP

- Written a python automation script using selenium.,
- Built an Arduino solution to the given problem.

Bangladesh Education Ministry, **National Talent Hunt**

BEST TALENT IN COMPUTER & MATH IN MADARIPUR

• Participated in a series of competitive tests on Mathematics and Computer Science up to District level.

Dhaka, Bangladesh 2012

Publications

LILA-BOTI: Leveraging Isolated Letter Accumulations By Ordering Teacher Insights for Bangla handwriting recognition.

ICPR 2022, Montreal, Canada

CONTRIBUTIONS: · Writing Deep Learning OCR models to recognize handwritten images

- Writing custom dataset codes for large corpus.
- · Writing algorithms to tackle challenges that arise in the Bangla language.
- Training models with different parameters.
- Reference: Hossain, M. I., Rakib, M., Mollah, S., Rahman, F., & Mohammed, N. (2022). LILA-BOTI: Leveraging Isolated Letter Accumulations By Ordering Teacher Insights for Bangla handwriting recognition.

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