

MACHINE LEARNING ENGINEER

Matikata, Dhaka Cantonment, Dhaka (1206), Bangladesh

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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

• 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 $Magna\ Cum\ Laude\ distinction,\ \mbox{CGPA}$ 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

2014 - 2016

HSC

• GPA: **5.00/5.00**.

Rajoir Gopalgonj KJS Pilot Institution

Dhaka, Bngladesh

SSC

2012 - 2014

• GPA: **5.00/5.00**.

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

Jan. 2020 - Dec. 2020

CHAIR

- 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 10, 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.

WorkshopsDhaka, Bangladesh

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 Datathon 2.0

Robi, Axiata Ltd., Dhaka,

Banqladesh

Finalists 20

- 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.

IOT For Tomorrow

NSU IEEE Student Branch, Dhaka,

Bangladesh

MIST, Dhaka, Bangladesh

2020, 2021, 2022

FIRST RUNNERS-UP 2019

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

ElectrathonNSU IEEE Student Branch INSB,

Dhaka, Bangladesh

• Written a python automation script using selenium.,

• Built an Arduino solution to the given problem.

National Talent Hunt

Bangladesh Education Ministry,

Dhaka. Banaladesh

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

2012

2022

2018

Publications

2ND RUNNERS-UP

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.

NOVEMBER 10, 2022