

Sabboshachi Sarkar

Section 2, Mirpur, Dhaka.

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SUMMARY

- Proficient in C/C++, Python, MATLAB, SQL, and Computer Networks
- Comprehensive understanding of Programming, Data Structure, ML Algorithms, ANN, DIP, NLP, Computer Networks, Wireless & Telecommunication, Satellite Communication and Optical Devices
- Strong mathematical skills, including Numerical Methods, Linear Algebra, Differential Equations, Calculus, Complex Variables, Probability and Statistical Analysis
- Hands-on experience working with Machine Learning Modeling, Data Processing, Data Visualization, Electric Circuits & PCB Design, VLSI, and Computer Networks

EDUCATION

Bachelor of Science (B.Sc.)

2017 to 2024

Electronics and Telecommunication Engineering (ETE)

Rajshahi University of Engineering and Technology (RUET)

CGPA-2.83 (out of 4.00)

Relevant Courses: C Programming, Data Structure and Algorithms, Digital Image Processing (DIP), Electronics, Communication Theory, Digital Communication, Computer Networks, Wireless and Mobile Communication, Telecommunication Engineering, Fiber Optic Communication, Satellite Communication and RADAR.

SKILLS AND TOOLS

OS: Windows, Linux (Basic)

Programming: Python, C/C++, SQL, MATLAB, HTML/CSS/Bootstrap, Assembly Language

Data Science: Big Data, Data Mining, DEA, Data Visualization Data Analysis, PowerBi, Matplotlib, MSExcel

Machine Learning: ML Algorithms, ANN, Pandas, NumPy, DIP, NLP, OpenCV, Keras, scikit-learn

Electronics: Arduino, Raspberry Pi, Microcontrollers, ExpressPCB, Multisim

Technical Skills: Computer Networking, IoT, Cisco Packet Tracer, Microwind, AutoCAD, Jupyter Notebook

PROFESSIONAL EXPERIENCE

Machine Learning (Intern) at Encryptix

June 2024 to July 2024

- Participated in a four-week online internship program at Encryptix
- Successfully completed five machine learning projects during the internship
- Enhanced understanding of machine learning through practical experience
- Gained valuable hands-on experience that advanced my professional career

Technologies Used: Jupyter Notebook

Product Analyst (Part-Time) at Edu-Explorer (EdTech Startup)

January, 2024 - Present

- Analyzed market trends and business models
- Conducted customer sentiment analysis
- Predicted outcomes using machine learning algorithms
- Enhanced product strategy and participated in marketing and promotional events

Technologies Used: Database/SQL, PowerBi, MS Office

RESEARCH EXPERIENCE

- Undergraduate Thesis:** 2023
Analysis of Stock Market Forecasting Utilizing an LSTM Approach
- Thesis on RNN Model Performance Analysis
 - Analyzed stock data from five different DSE companies across distinct categories
 - Conducted comparative analysis with NASDAQ Stock Exchange
 - Results showed superior accuracy of NASDAQ data with the RNN model
 - Highlighted heightened uncertainty in the Dhaka Stock Exchange

PROJECTS

- Text Classification with NLP and Machine Learning Algorithms** 2023
Research Project
Technologies used: Pandas, NLP, scikit-learn, Matplotlib, ML Algorithm, Google Colab.
- Predicting the Severity of Road Accidents using Neural Networks** 2023
Research Project
Technologies used: Pandas, NumPy, Keras, Matplotlib, Neural Networks, Google Colab.
- Vehicle Number Plate Detection and User Management System** 2020
University 6th Semester Project, ETE 3200
Technologies used: Python, Django, Raspberry Pi, OpenCV, TensorFlow
- Smart Road Accident Detection and Communication System** 2018
University 4th Semester Project, ETE 2200
Technologies used: Arduino, GSM Module, GPS Module, Bluetooth Module, Motor Driver Module, Vibration Sensor Module

ACHIEVEMENTS

- Amra Notun Young Changemakers' Award** 2024
from Brac Youth Platform
- 4th in Mud-Rover section of Robotronics** 2021
from Department of MTE, RUET

EXTRACURRICULAR ACTIVITIES

- Project Khadija** September 2023 to Present
Project Coordinator and Programming Instructor
Project Khadija was an IT training program designed to equip women madrasa students with essential freelancing skills such as Graphic Design, Content Writing, and Basic C Programming. It gained national recognition as the winner of the Brac Youth Platform's Changemakers Award in 2024.
Skills & Developments: Leadership, Public Speaking, Entrepreneurship, Project management
- Amra Notun Network (ANN), Brac Youth Platform** May 2023 to September 2023
Trainee
A skill development program by Brac Youth Platform for college and university students to develop life skills like leadership and stress management, as well as employability skills such as entrepreneurship and project management.
Skills & Developments: Leadership, Public Speaking, Stress management, Entrepreneurship, Project management

REFERENCE

Dr. Mst. Fateha Samad
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