

# Mirza Naeem Beg

Dhaka, Bangladesh | mirzanaeem278@gmail.com  
LinkedIn: [linkedin.com/in/mirza-naeem-beg](https://www.linkedin.com/in/mirza-naeem-beg) | GitHub: [github.com/naeembeg](https://github.com/naeembeg)  
Website: [naeembeg.github.io](https://naeembeg.github.io)

## SUMMARY

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Dedicated Computer Science & Engineering undergraduate with a strong foundation in mathematics and programming, actively pursuing interests in AI/ML research and development. Experienced in NLP fundamentals and text preprocessing techniques such as tokenization, stemming, lemmatization, and stop word removal etc. Enthusiastic about exploring advanced mathematical concepts in machine learning and contributing to innovative AI research. Also focusing on understanding large language models and their applications while maintaining a regular practice of reading and analyzing research papers.

## EDUCATION

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### AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY

B.Sc. in Computer Science & Engineering  
3<sup>rd</sup> Year 2<sup>nd</sup> Semester | Current CGPA: 3.0+ / 4.0

Dhaka, Bangladesh

Expected March 2026

### MYMENSINGH GOVERNMENT COLLEGE

Higher Secondary Certificate (HSC)  
GPA: 5.0 / 5.0

Mymensingh, Bangladesh  
2020

### PROGRESSIVE MODEL SCHOOL

Secondary School Certificate (SSC)  
GPA: 5.0 / 5.0

Mymensingh, Bangladesh  
2017

## TECHNICAL SKILLS

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- **Programming:** Python, C, C++, Java
- **NLP Skills:** Text preprocessing, Tokenization, Stop Words Removal, Stemming, Lemmatization
- **AI/ML Tools:** Google Colab, Jupyter Notebook
- **Mathematics:** Linear Algebra, Calculus, Probability Theory
- **Web Technologies:** HTML, CSS, Bootstrap, TailwindCSS, ReactJS, JavaScript, .NET Core
- **Databases:** MySQL, Microsoft SQL Server, mongoDB
- **Version Control System:** Git, GitHub

## AI/ML & RESEARCH

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- **Independent Research:** Regularly study AI/ML research papers, focusing on LLMs, NLP, and generative AI methodologies.
- **Coursework:** Enrolled in the **Machine Learning Specialization** by Andrew Ng on Coursera (*In Progress*).
- **AI/ML Projects:** Working on data processing pipelines and text-based models in Python.

## UNIVERSITY PROJECTS

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### BechaKena.Com (E-commerce Platform with Auction Feature)

CSE3100, 2024

- Developed a full-stack e-commerce platform with integrated auction functionality
- Technologies used: HTML, CSS, Bootstrap, PHP, MySQL
- Implemented real-time bidding and robust back-end management
- <https://github.com/naeembeg/CSE3100-SD-IV>

### **TrendWave (TikTok Clone)**

CSE2200, 2024

- Collaborated on developing a mobile application replicating key TikTok features
- Technologies used: Flutter, Dart, Firebase
- Contributed to UI/UX design and Firebase integration

### **Railway Ticket Management System**

CSE2100, 2023

- Created a JavaSwing-based ticket booking system with MySQL backend
- Applied object-oriented principles and GUI design

### **DoomExploder (Action Game)**

CSE1200, 2022

- Developed an interactive game using C/C++ with iGraphics framework
- Contributed to collision logic, sound implementation, and graphics

## **COURSEWORK**

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- **AI/ML & Mathematics:** Artificial Intelligence (current), Mathematical Analysis for Computer Science, Numerical Methods, Math I to V courses
- **Computer Science Core:** Elementary Structured Programming, Object Oriented Programming, Discrete Mathematics, Data Structures, Algorithms, Database, Computer Networks (current), Operating Systems (current).

## **CERTIFICATIONS & LEARNING**

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- **Code in Place 2024** – Stanford University (*Completed*) [<https://codeinplace.stanford.edu/cip4/certificate/ct21d8>]
- **Python Basics & OOP** – HackerRank (*Completed*) [<https://naacembeg.github.io/learnings.html>]
- **Machine Learning Specialization** – Andrew Ng, Coursera (*In Progress*)
- Firebase, Node JS, Express JS, MongoDB, C#, .NET Core (*In Progress*)
- Deep Learning Specializations by Andrew Ng, Coursera, Machine Learning Crash Course by Google, Elements of AI, CS224n and CS231n by Stanford... (*Planned*)
- **Full Stack Open** – University of Helsinki (*Planned*)

## **SOFT SKILLS**

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- Strong mathematical foundation with eagerness to learn advanced concepts
  - Research-oriented mindset with focus on AI/ML methodologies
  - Good problem-solving and analytical thinking abilities
  - Effective communication and collaboration skills
  - Self-motivated learner with passion for AI advancement
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