

Nazia Shehnaz Joynab

☎ 01928943835 | ✉ ncoder76@gmail.com | 🌐 nazia-shehnaz.netlify.app | 🐱 geek-a-byte | 📺 naziashehnaz

Education

Military Institute of Science and Technology (MIST)

Dhaka, Bangladesh

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING

2019 Feb – 2023 Feb

CGPA - 3.66/4.00

- MIST Dean's List of honor - 2019 Academic Session (2018 - 2019)
- MIST Dean's List of honor - 2020 Academic Session (2019 - 2020)

Internship Experience

Industrial Attachment @Robi Axiata Limited

Remote

DATA ANALYSIS, DATA VISUALIZATION

Nov. – Dec. 2021

Skills

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|-------------------------------|--|
| Languages | Python, C++, Java, Dart, SQL, JavaScript |
| Frontend | HTML5, CSS3, Bootstrap, Flutter |
| Web-Backend | PHP (Laravel), Python (Flask/Django), Apache |
| Database | Oracle, MySQL, Firebase |
| AI/ML | Pytorch, sklearn, Pandas, Streamlit |
| Version Control System | GitHub |
| API Testing | Postman |
| Graphics/UI Design | Blender, Adobe Illustrator, Figma |

Projects

Joyita

Code [↗](#)

A ML-BASED ANDROID APPLICATION FOR SCREENING, FACILITATING THE CERVICAL CANCER TREATMENT

- Created re-usable widgets, maintained a structured codebase while developing the whole project in **Flutter**.
- Testing of the application was done by almost **50+** users.
- Hosted ML model using **Flask and Heroku**.
- Used **Cloud Firestore** in the backend to store doctor appointment details, patients' blogs.

Shohay

Private Repository

A ML-BASED ANDROID APP FOR PREDICTING CRIME TYPES AT A SPECIFIC LOCATION AND DISCOVERING NEARBY SAFEST PLACES

- displayed nearby safest locations on **google maps** from current location
- Setting up emergency contacts and SOS alert generation feature was added.
- realtime tracking of both the victim and oneself was done.
- Predicted crime types and rates at a specific location using **KNN** algorithm.
- Hosted the ML model in **Flask and Heroku**.

Shopner Pathshala

Code [↗](#)

E-LEARNING PLATFORM FOR SPECIAL CHILDREN

- Used **Laravel8** and **Oracle 11g** as backend.
- Dynamic graph generation of a student's result data using **Chart.js**.
- Created ER and Schema Diagram for the database, used **PL/SQL** (procedure, trigger, sequence, cursor, exception handling) and constraints.
- CRUD operations added for automated appointment system, online forum, new course addition, result displaying options and role based authentication.

Bengali Sign Language Recognition Using Deep Learning

Code [↗](#)

DATASET [↗](#)

- Used **Pytorch** documentation to pick pre-trained models, loss function, optimizer and evaluate the models.
- compared five pre-trained models for recognizing 38 classes - **Densenet121, VGG16, Mobilenet v3 small, Mobilenet v2, and Resnet50**; we achieve an overall test accuracy of 96.57%, 95.13%, 92.82%, 95.52%, 96.31% respectively.

GAME PROJECT AND DESKTOP APPLICATION

- Used **Java Swing** for creating the frontend. The game is played on a 4x4/6x6/8x8 grid using the arrows.
- Tiles with the same value that bump into one-another are merged(numbers on the tiles are summed up). The user who can make one tile's summation result 2048 wins.

Foodonation

Code [↗](#)

A FREE FOOD DELIVERY APP WHICH SERVES FOOD FOR THE NEEDY AND POOR PEOPLE.

- Used **Flutter, Provider** package for creating the frontend.
- used **Cloud Firestore** as backend to display available food package options and storing users' order requests

Achievements

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|------|--|---------------------------------|
| 2022 | 2nd Runners-up (MIST_Constants) , Devmania 2022, BDOSN | |
| 2021 | 46th position (MIST_WrongIn_Jibon) , National Girls' Programming Contest 2021 | Standing ↗ |
| 2021 | top 100/1000 teams , Mujib 100 Idea Contest | Certification ↗ |
| 2019 | 34th position (Bitchamps) , Inter University Girls' Programming Contest Season 2, NSU | Standing ↗ |

Other Competition Performances

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|-------------------------------|---|
| Code Samurai 2022 | Placed 15th position in the preliminary contest and participated in the main event. |
| SRBD Code Contest 2022 | was selected for upto round 2. |
| RUET CSE Fest 2022 | Participated in project showcasing competition |
| Programming Contests | Participated in NGPC, IUGPC and ICPC Asia Dhaka Regional Preliminary Contests. |

Certifications

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|---|--|
| Problem Solving (Basic) | Hackerrank ↗ |
| SQL | Hackerrank ↗ |
| Python (Basic) | Hackerrank ↗ |
| Intro to Machine Learning | Kaggle ↗ |
| Data Cleaning | Kaggle ↗ |
| Intermediate Machine Learning | Kaggle ↗ |
| Android and IOS development in Flutter | MIST Innovation Club ↗ |
| Introduction to Natural Language Processing by building a simple app | She Thinks Code ↗ |
| Intro to Deep Learning | Kaggle ↗ |
| Python | Kaggle ↗ |

Extra Curricular Activities

MIST Computer Club

EXECUTIVE DIRECTOR (2022) AND TEAM LEADER OF R & D (2021)

- Currently conducting an introductory course on **Machine Learning and Deep Learning**.

MIST Innovation Club

SUPERVISOR AND TEAM LEADER OF APPLICATION DEV (2022)

- Conducted a workshop on the basics of Python **Object Oriented Programming** for more than **200 participants**.
- Prepared video tutorials of **Django**

Problem Solving Profile

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|--------------------|---|
| StopStalk | dheeranazia ↗ |
| Codeforces | Oporajita32 ↗ |
| Vjudge | dheeranazia ↗ |
| Hackerrank | geek_a_byte32 ↗ |
| CSES | geek_a_byte32 ↗ |
| Solve Count | Solved around 450 problems on different platforms |