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# Mayisha Farzana

## Educational Qualifications

2016–2021 **Bachelor of Science in Computer Science and Engineering**, *Ahsanullah University of Science and Technology*, Dhaka, Bangladesh,
CGPA: ***3.793*** *out of **4.00***
*Class Ranking: 7th out of 78 students.*

## Standarized Test Scores

***International English Language Testing System (IELTS)*** 4th September , 2021
Overall - 6.5
Listening - 7.5 | Reading - 6.0 | Writing - 6.0 | Speaking - 6.5

## Achievements

2021 Received **Dean's List of Honor** for securing CGPA more than 3.75 (based on B.Sc. result)

2020 Received **1st** place in Thesis Milestone Poster Presentation arranged by AUST CSE

2019 Received **1st** place in Intra AUST programming contest Spring 2019 hosted by CODEWARE

2019 Received **2nd** place in Intra AUST Programming Contest organized by Game of Codes

2012 Received merit-based **General Award Scholarship** awarded in recognition of outstanding achievement in Junior School Certificate Examination

## Undergraduate Thesis Work

2021 ***Shuvro: A Context Sensitive Bengali Spell Checker to Combat Hilarious Language Distortion over Social Media***
**Description:** *A writing tool for the Bengali language would act as an editorial assistant and generate word suggestions of code-mixed input, detect contextual spelling errors and distinguish hilarious "Murad Takla" sentences with general sentences containing real-world errors. We design a spell checker that provides word suggestions for Romanized Bengali words, converts them into their native scripts, detects contextual spelling errors in a sentence, and detects Murad Takla sentence detection from codemixed Bengali-English text, using Avro Keyboard as a baseline model. Using word embedding models and neural models, we evaluated our system by creating a dataset comprising of Murad Takla sentences.*

## Research Publications

### In Conference Proceedings (Accepted Papers)

2021 Nazmus Shakib Shain, Silvia Sanjana, Mayisha Farzana. Automated Detection of Covid-19 Pneumonia and Non-Covid-19 Pneumonia from Chest x-ray images using Convolutional Neural Network (CNN). 2021 2nd International Conference on Innovative and Creative Information Technology (ICITech) (2nd ICITech 2021).

2021  Silvia Sanjana, Nazmus Shakib Shadin, Mayisha Farzana. Automated Diabetic Retinopathy Detection Using Transfer Learning Models. 2021 5th International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT 2021)

## Research Interests

Machine Learning, Deep Learning, Computer Vision, Natural language processing

## Technical Skills

| | |
|---|---|
| Programming Languages | C, C++, Java, Python, SQL |
| Web Development | HTML, CSS, Bootstrap, PHP |
| Database | MSSQL, MySQL, SQLite, PL/SQL. |
| IDE and Applications | Code Blocks, NetBeans, Android Studio,, Matlab, GitHub, Microsoft Visual Studio, VMware Workstation Pro, Google Colabotory |
| Office Applications | Latex, Microsoft Excel, Microsoft Powerpoint |

## Academic Projects

2021  **Movie Genre Prediction using Deep learning**, *Using python, deep learning, NLP based*.
Link: `https://github.com/MayishaFarzana/Movie-Genre-Prediction/tree/main`

2020  **Baby Day Care**, *Using Oracle, Notepad ++, Virtual Machine*.
Link: `https://github.com/MayishaFarzana/Baby_Day_Care`

2019  **Online Bus Ticket Management System**, *Using C#, MVC ASP.NET, Html, CSS, Bootstrap, Microsoft Visual Studio*.
Link: `https://github.com/MayishaFarzana/Online_Bus_ticket_management_system`

2019  **University Website**, *Using HTML, CSS3, JavaScript, PHP, My SQL, Notepad++*,
Link: `https://github.com/MayishaFarzana/University_of_Sky`.

2019  **Football Tournament Management System** , *Using Java, MSSQL, SQL, NetBeans 8.0, Microsoft SQL Server Management*,
Link: `https://github.com/MayishaFarzana/football_tournament_management`.

2019  **Student Management System**, *Using Android Studio*,
Link:`https://github.com/MayishaFarzana/Student_management_system`.

2019  **Cleaning Robot**, *Hardware project, Using Arduino IDE*,
Link:`https://github.com/MayishaFarzana/Cleaning_Robot`.

2018  **Notepad**, *Using Java, NetBeans IDE 8.0*.

2017  **DxBall Game** , *Using C, C++, Microsoft Visual Studio*.

## Participation in Seminars And Conferences

2019  Participated in **EWU Inter-University Math Olympiad** hosted by East West University

2019  Participated in a Workshop on **'Full Stack Web Development** arranged by Aust Innovation and Design Club

2019  Participated in a Workshop on 'Next Corporate Leader Development Program Chapter 1.0' arranged by Aust Innovation and Design Club

2018  Participated in **10th National Undergraduate Mathematics Olympiad** arranged by Bangladesh Mathematical Society AF Mujibur Rahman Foundation

## Certifications

Intro to Machine Learning.

Machine Learning Basics: Logistic Regression, LDA and KNN

Natural Language Processing

Neural Networks and Deep Learning

Programming for Everybody (Getting Started with Python)

Sentiment Analysis with Deep Learning using BERT

## References

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