Shaira Sadia Karim

Undergraduate Student

I am a fourth-year **Software Engineering** student at **Islamic University of Technology**, keen on working with web development and backend technologies. I have a particular passion for diving into edge cases, corner cases, and testing scenarios, as I believe they are crucial for crafting robust and reliable software. I am eager to contribute to projects that demand collective effort and cooperation and polish my skills further through continuous learning.

Contact

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Education

- Mohammadpur Preparatory School and College
  SSC GPA: 5.00
  2018

- Adamjee Cantonment College
  HSC GPA: 5.00
  2020

- Islamic University of Technology
  BSc in Software Engineering
  CGPA: 3.53
  2025

Skills

- Backend Development (Node.js, Java, Django, PHP)

- MySQL, SQLite, MongoDB

- Machine Learning Libraries (Keras, pandas, scikit-learn) and Models (classification, regression, deep learning)

- JUnit Testing, API Testing (Postman)

Experience in Projects

Deep Learning Model Implementation (*LSTM*) | 6th Semester | Project Title: **Bug Severity Prediction** 🔗
February 2024 – March 2024

- Preprocessed dataset.
- Trained LSTM model using a Sequential approach.
- Generated confusion matrix, classification report, ROC curve, AUC.
- Tested on unseen data to see how well the model predicts.

Django | 5th Semester | Project Title: **GrocerEase** 🔗
August 2023 – December 2023

- Developed an e-commerce based website to buy grocery items.
- Enabled users to search and filter items by keywords and filters.
- Implemented notification system for sellers.
- Enabled customers to favorite items and view them.
- Enabled customers to refund cancelled items.
- Generated an automatic grocery list with recommendations for customers.

Node.js | 5th Semester | Project Title: **Cheems** 🔗
August 2023 – December 2023

- Built a server-based meme-sharing platform to create, edit, view and engage with memes.
- Implemented Google OAuth.
- Implemented file handling techniques (image, video).
- Enabled users to like and unlike memes.
- Enabled users to comment, view and edit comments on memes.
- Used Postman to make a collection of API requests to test and verify the functionality of the API endpoints.

Machine Learning Model Implementation | 5th Semester | Project Title: **Bangla Movie Popularity Predictor** 🔗
August 2023 – December 2023

- Curated a comprehensive dataset of 209 Bangla movies ranging from 2018-2023.
- Utilized YouTube API to extract movie trailer-related metrics.
- Performed K-fold cross validation for 4 regression models : Random Forest, Decision Tree, Linear Regression and Support Vector Machine.
- Performed hyperparameter tuning (GridSearch).

Languages

- English
- Bangla

GitHub

https://github.com/shaisad

LinkedIn

http://www.linkedin.com/in/shaira-sadia-karim-444b56301

Experience in Projects (Contd.)

Java for Design Pattern Project Implementation | 5th Semester |
Project Title: **Racing In IUT** 🔗
August 2023 − December 2023

- Built a skeleton of a single-player racing game following 6 design patterns: Factory Pattern, Abstract Factory Pattern, Template Pattern, Strategy Pattern, Decorator Pattern, Singleton Pattern.

Node.js of MERN Stack | 4th Semester | Project Title: **BonVoyage!** 🔗
February 2023 − May 2023

- Led the backend development of this trip planning website.
- Implemented trip collaboration by using invitation links sent via email.
- Implemented polling system.
- Enabled users to make, view and download their itinerary.

PHP | 3rd & 4th Semester
Project Title: **Find-A-Doc** 🔗
February 2023 - May 2023

- Implemented the entire backend of this website.
- Enabled patients to schedule and reschedule appointments with doctors.
- Enabled doctors to view and accept/cancel appointments.

Project Title: **R.R.F.: Rate. Review. Find.** 🔗
August 2022 − December 2022

- Helped customers to find restaurants based on location, price, category.
- Enabled customers to rate and review restaurants and individual food items.
- Enabled restaurants to showcase and update their profiles and menus.