MD. Robayet Ahasan Rifat

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Education

United International University-Bangladesh 2020-2024
Bachelor of Science (BSc) in Computer Science and Engineering CGPA: 3.22 on a scale of 4.00

Relevant Courses: Data Structure, Algorithm, OOP, Database Management, System Analysis, Computer Network, Artificial Intelligence, Machine Learning, Image Processing, Bioinformatics, Software Quality Assurance

- credit completed: 137 out of 137 (major in data science)

Dhaka City College-Dhaka 2019
Higher Secondary Certificate (Science)

Research Work

"An Approach to Classify Ocular Toxoplasmosis Images Using Deep Learning Models" – Eye inflammation disease that occurred from a parasite attack called Toxoplasma gondii. Using Deep Learning, we have classified into healthy eye, unhealthy eye, and active eye. It is published in ICCIT conference Cox's Bazar 2023. [Link]

"Movie Genre Prediction Using Graph Neural Networks (GNNs) from IMDb Movie Posters"- FYDP research project which get me a 1st runner up prize in UIU project show.

Projects

EDA on Customer Churn [GitHub] [Report]
For the Telco Customer Churn analysis, I conducted Exploratory Data Analysis (EDA) to understand customer behavior and identify churn patterns. Key steps included data cleaning, feature scaling to normalize numeric variables, and a detailed analysis of customer demographics and service usage. Visualizations highlighted trends in churn across various features, helping to reveal factors like monthly charges, gender type, age period and tenure length that is the reason behind churn.
(Pandas, NumPy, Statistics)

EDA on Bank Loan Defaulter [GitHub] [Report]
Conducted an Exploratory Data Analysis (EDA) on Bank Loan Defaulters to identify patterns and behaviors associated with loan defaults. Analyzed demographic factors (age, income, employment status, credit history indicators to understand key risk factors. This analysis provides actionable insights for enhancing lending policies and developing targeted risk mitigation strategies.
(Pandas, NumPy, Statistics)

E-Commerce Web App [GitHub] [Live]
I developed an e-commerce web app using Nextjs file routing, I implemented JWT web tokens for secure user authentication and used password encryption to protect user credentials. The app features a well-organized product listing, a dynamic shopping cart, and integrates the SSL Commerz payment gateway for secure transactions. For data management, I used MongoDB to store product and user information efficiently.
(Tailwindcss, NextJs, File Routing, MongoDB, JWT, SSL Commerz Payment Gateway)

Foundation Management Web App [GitHub] [Live]
I built a Foundation Management Web App using Nextjs app routing. The app includes a noticeboard for important updates, an event list to keep track of upcoming activities, and a member database to manage and organize member information effectively.
(Tailwindcss, NextJs, App Routing, MongoDB)

Bus Ticket Reservation System project in C [GitHub] [YouTube]
This system is based on a concept to reserve bus tickets. The user can view bus fares and book tickets. While booking tickets, the user must enter Departure From, Departure To, Departure date then the system displays available bus seat numbers. The user must enter the seat number, and

name of the person. There's no chance of data misuse or loss & it's not time-consuming. The whole project is developed in 'C' Programming language, different variables, strings, and files have been used for the development of this project. It's easy to operate and understand by users.
(Console App, Features: Reserve seat, Search ticket, Check bus fare)

Blood Bank Management System [GitHub]

I developed a Blood Bank Management System using PHP and MySQL, allowing users to search for available blood types, make requests, and respond to blood donation needs. The system also includes functionality to control the active status of blood requests, ensuring up-to-date information for both donors and recipients.
(PHP, MySQL)

Skills

Languages:	C, C++, Python, Java, JavaScript
Database System:	MySQL, MongoDB
Frameworks:	NextJS, TailwindCSS
Libraries:	OpenCV, Pytorch, NumPy, Pandas
Tools & Software:	VS Code, Google Colab, Kaggle, Latex

Co-curricular Experience

Secretary of Public Relations
UIU Robotics

Campus Ambassador
Amar iSchool

Head of Event
UIU Entrepreneur Development Forum

Vice President
Alokito Foundation

Honors & awards

- **1st Runner Up of the CSE project show! Summer'23 (Final Year Design Project-I)**
- **2nd Runner Up of the CSE project show! Fall'22 (Advanced Object-Oriented Programming)**
- **Champions of the CSE project show! Fall'22 (Microprocessor, Microcontroller Lab)**
- **Scholarship based on trimester result (Obtained scholarship in several trimester)**

Course and Certificates

- Intro to SQL by Kaggle: [Link]
- Learn Statistics with Python Course by by Codecademy: [Link]
- Learn Data Analysis with Pandas Course by Codecademy: [Link]
- Learn HTML Course by Codecademy: [Link]

Reference

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