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Farjana Alam

Education

BRAC University, Dhaka, Bangladesh

Jan 2020 – Oct 2024

- B.Sc. in Computer Science (CS) - CGPA: 3.69 on a scale of 4
- Coursework: Programming and problem solving, Data structures & Algorithms, Software engineering, Data Science, ML, NLP, AI, Machine Vision, HPC, Database Systems, Computer Networks.

Languages and Technologies

- **Machine Learning:** Feature Engineering, Statistical Modeling, Data Analysis, Image processing.
- **Languages and Frameworks:** C, C++, Python, JavaScript, SQL, Django Web Framework.
- **Technologies and Tools:** TensorFlow, Numpy, Pandas, PyTorch, Matplotlib, Scikit-learn, Power BI.
- **Others:** HTML, CSS, Bootstrap, Git, PyGame, OpenCV, Office 365 Suite (Excel, PowerPoint, Word).

Projects

- **Find Your BRACU Mates - [GitHub](#)**
 - Created a user management system using PHP, MySQL, HTML, CSS, and Bootstrap, supporting three user roles: Students, Blood Donors, and Alumni.
 - Built search functionalities that allow users to connect based on shared interests and categories (Students, Alumni, Blood Donors).
 - Integrated secure registration and login features, including age verification (18+), weight requirements (40+ KG) for Blood Donors, and student ID validation for Students.
 - Enhanced user experience by ensuring unique email and ID for each user profile.
 - Added "FAQ" and "Lost & Found" sections, enabling users to ask questions and report found items.
- **The Dogge Game - [GitHub](#) | [Live](#)**
 - A PyGame based funny game project. The idea is based on viral memes and Bengali regional meme audio.
 - Interactive gaming experience where players control the character to navigate through various obstacles.
 - Keeps track of minimum, average, and maximum scores.
 - Includes music and bengali funny sound effects to enhance the gaming experience.
 - Used Pygbag to run this game in a web browser, making it accessible without additional software.
- **BRACUnite - [GitHub](#) | [Live](#)**
 - Built a user management platform using Django, HTML, CSS, and JavaScript to strengthen networking among BRAC University students.
 - Supported three unique user registration types—Student, Alumni, and Faculty to promote community connections.
 - Developed CRUD functionalities for profile management, allowing users to edit and maintain their information easily.
 - Added multiple features, including ride-sharing requests, CV PDF generation, email authentication, and a search function to find people with shared interests.
 - Designed and integrated an interactive game with Pygame to enhance user engagement on the platform.

Experiences

Student Mentor

OAA, BRAC University

Sep 2022 – May 2024

- Mentored and guided students enrolled from FALL 2022 to SUMMER 2023 as part of the FYAT (First-Year Advising Team) program from FALL 2022 to SPRING 2024.

Senior Contributor**AI & Firmware, BRACU Dichari****Jul 2022 – Jun 2023**

- Collected, verified, labeled and processed a dataset of over 5000 images.
- Participated in developing ML models using YOLOv5, achieving 83% accuracy in real-time detection of injured people during natural disasters.

Research and Publications

- Understanding Convolutional Neural Network's Behavior for Alzheimer's Disease on MRI | [Link](#)
- Comparison of deep learning models for weather forecasting in different climatic zones | [Link](#)
- Quality Assessment of Extracted Information from Newspaper Comment Sections using NLP | [Link](#)

Programming and Awards

- Received Merit Scholarship based on BRAC University Academic Results from SUMMER2021 semester to SPRING2023 semester.
- Completed Bachelor's with High Distinction, Got placed on Vice Chancellor's List for four times and Dean's List for once during Bachelor's (Awarded as recognition of achieving a GPA of 3.90-4.00 on a particular semester)
- Secured a position in the top 10% of participants in the BRACU Intra-University Girls' Programming Contest, Summer 2023