MAIDUL ISLAM

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Portfolio: https://maidul.netlify.app

EDUCATION

BRAC University, Dhaka, Bangladesh

B.Sc. in Computer Science (CS) - CGPA: 3.69

Skills Summary

Languages: Python, C++, SQL, HTML5, CSS, Java, C, JavaScript, PHP

Libraries & Frameworks: Django, TensorFlow, PyTorch, Numpy, Pandas, Scikit-learn, Matplotlib, Tailwind CSS, Bootstrap Version Control Systems: Git, Github

Platforms & OS: Pycharm, VScode, Jupyter Notebook, Google Colab, Kaggle, Anaconda Navigator, Figma, Linux Soft skills: Time Management, Critical Thinking, Teamwork and Collaboration, Communication, Leadership

WORK EXPERIENCE

BRAC University | STA201 - Elements of Statistics & Probability

Teaching Assistant (TA) / Student Tutor (ST)

- Instructed over 350 students in Statistics and Probability fundamentals for the STA201 course
- Conducted consultations 4 days a week, addressing student queries and providing academic support
- Provided constructive feedback on over 1400 assignments to enhance students' problem-solving skills

BRACU Dichari

Senior Contributor (AI & Firmware)

- Collected, labeled, and preprocessed a dataset of over 5000 images
- Developed AI models using YOLOv5, achieving an accuracy rate of 83% for real-time detection of injured individuals during natural disasters
- Integrated AI models into two complex aerial and ground vehicles to enhance functionality

PROJECTS

BRACUnite | LINK | Live Demo

- Developed a user management system using Django, HTML, CSS, and JavaScript to enhance connectivity among BRAC University students
- Enabled three different user signups: Student, Alumni, and Faculty, fostering connections within the community
- Implemented CRUD operations for user profiles, allowing users to manage their information effectively
- Introduced over five features including ride requests, PDF generation of CVs, email authentication, and searching for people with common interests
- Designed and implemented a fun and engaging game using Pygame to enhance user experience within the platform

Brain Tumor Segmentation on MRI Images | LINK

- Built an ML pipeline with 3D-UNet architecture to segment brain tumors from MRI images, achieving 98.84% accuracy
- Classified 5 different types of brain tumor tissues, achieving an Intersection over Union (IoU) score of 85.71%

Low Resolution to Super Resolution Images | LINK

- Designed an AI model using a VGG19-guided Generative Adversarial Network (GAN) to transform images from low resolution to super resolution
- · Achieved significant image quality improvement after training for only 3 epochs

Find Your BRACU Mates | LINK

- Developed a user administration platform using PHP, MySQL, HTML, CSS, and Bootstrap, supporting three user categories: Students, Blood Donors, and Alumni
- Implemented secure registration and login functionality with age verification (18+), weight verification (40+ KG) for Blood Donors, and valid student ID verification for Students
- Empowered users by ensuring the uniqueness of email and ID for each user

Oct 2023 - Apr 2024 Dhaka, Bangladesh

Oct 2022 – Jul 2023 Dhaka, Bangladesh

Jan 2020 - May 2024

- Established "FAQ" and "Lost & Found" features allowing users to submit questions and report found items
- Implemented search functionalities enabling users to find others based on shared interests and categories (Students, Alumni, Blood Donors)

Detecting Alzheimer's Disease on MRI | LINK

- Developed a Convolutional Neural Network (CNN) to detect Alzheimer's disease in early stages from brain MRI images
- Improved detection accuracy to 97.31% with minimal pre-processing techniques

Heart Disease Prediction Using Federated Method | LINK

- Engineered a Federated Artificial Neural Network (FANN) to predict heart disease based on patient attributes
- Implemented the model across 10 clients, achieving an accuracy of 91.52%

AWARDS

• Finalist - Needle Innovation Challenge 2.0	2024
• Performance Based Scholarship - 100% scholarship based on academic results.	2021
Research works	
Quality Assessment of Extracted Information from Newspaper Comment Sections using NLP Thesis Work	2024
• Comparison of deep learning models for weather forecasting in different climatic zones JCSE	2024

CERTIFICATES

- AWS Machine Learning Foundations | Udacity
- Introduction to Cybersecurity Tools & Cyber Attacks | Coursera
- Python Data Structures | Coursera
- Programming for Everybody (Getting Started with Python) | Coursera
- AI For Everyone | Coursera

ONLINE JUDGE PROFILES

- https://www.stopstalk.com/user/profile/MAIDUL_ISLAM | LINK
- https://leetcode.com/u/Maidul_Islam/ | LINK
- https://codeforces.com/profile/MAIDUL_ISLAM | LINK
- https://www.hackerrank.com/profile/Maidul_Islam | LINK
- https://judge.beecrowd.com/en/profile/422012 | LINK