MD. ASIF RAHMAN

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Portfolio

Objective

As an ambitious computer science graduate with a deep enthusiasm for tackling complex challenges, I am excited to contribute to innovative projects that drive meaningful change. With a strong foundation in research and development, I am seeking opportunities where I can apply my technical skills and collaborate with a forward-thinking team to deliver impactful solutions in today's rapidly evolving tech landscape. My goal is to be at the forefront of cutting-edge advancements while continuing to grow both professionally and personally.

Education

Bachelor of Science in Computer Science and Engineering — **2020-2024**
BRAC University, Dhaka — CGPA: 3.60/4.00

Higher Secondary Certificate (Science) — **2017-2019**
Dinajpur Government City College, Dinajpur — GPA: 4.75/5.00

Secondary School Certificate (Science) — **2015-2017**
Dinajpur Zilla School, Dinajpur — GPA: 4.93/5.00

Projects

Chakri-Chai

An online job platform where employer can post for new jobs and job seekers can search and apply for their desired jobs. This project is developed using MERN stack.

Online Education Platform

This is basic e-learning platform. Where teacher can schedule exams for different courses and student can attempt those exams in designated time. This project is developed using Laravel.

Donation Management System

A platform which can manage donation. Organization can be listed for asking donations and donors can donate money. This project is developed using PHP .

Heart Disease Prediction Project

This is a Machine learning project using different models like KNN, Logistic Regression, SVM and Decision Tree for predicting Heart Disease.

Space Surviving Game

This is basic surviving game made using different geometric shapes like circles, lines. This game was developed using Python.

Research

Depth-Aware Object Detection and Region Filtering for Autonomous Vehicle: A Monocular Camera-Based Novel Integration of MiDaS and YOLO for Complex Road Scenarios with Irregular Traffic

Supervisor: Dr. Md. Khalilur Rhaman, Professor, Department of CSE, BRAC University

- The motive was to detect objects and depth estimation using cameras instead of LiDAR on the geography of Bangladesh
- MiDas, YOLO, MegaDepth, MonoDepth2 models used for the paper
- The thesis contributed to BRAC University's autonomous vehicle project

Obstacle Pattern Recognition from a Vehicle's Perspective: Leveraging YOLOv8 for Enhanced Recognition

Supervisor: Annajiat Alim Rasel, Senior Lecturer, Department of CSE, BRAC University

- Evaluated different YOLO versions: YOLOv3, YOLOv5, YOLOv8 and Tiny YOLOv3
- Applied on custom dataset consist of two thousand raw data
- Trained and evaluated model performance using accuracy and F1 score for custom dataset

Comprehensive Analysis of CNN Architectures for the Development of a Custom Convolutional Neural Network Model

- Analyzed different CNN models: AlexNet, ResNet and InceptionNet
- Created a custom CNN model for classification
- Evaluated model performance using accuracy, F1 score, and ROC AUC score

Skills

- **Languages:** Python, Java, C/C++
- **Database:** MySQL
- **Python Libraries**: NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn
- **Frameworks:** Pytorch, Laravel, MERN
- **Office skill**: Sheets, Word, PowerPoint, LaTeX
- **Version Control:** Git, GitHub

Extracurricular activities

- Apprentice at BRAC university Robotics Club **2021-2024**
- General Member at BRAC University Computer Club **2021-2024**
- Worked as a volunteer on the 15th convocation of BRAC University **2023**
- Worked as a Volunteer in Volunteer for Bangladesh (VBD), an organization of JAAGO foundation **2014-2018**

References

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