Md. Ferdous Haque

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EDUCATION

Daffodil International University	Dhanmondi, Dhaka
B.Sc. in Computer Science and Engineering	2016-2020
CGPA 3.71/4.00	

PROJECTS

Blockchain – Thesis project
- A distributed solution to exam result database security in a decentralized way
- Implemented blockchain-based database storage for the exam results in the sense of creating a tamper-proof environment for the database

Machine Learning – Book Recommender System
- Built a web app that can recommend the top five books based on user's interest
- Used collaborative filtering method in three datasets and come up with the solution

Machine Learning – Movie Recommender System
- Implemented a website that can read a user's input of a movie name and can recommend the top 5 similar movies
- Used content-based filtering method in two datasets for this project

Computer Vision – Human Posture Detection
- Detected 17 key points(coordinates) in the human body through the real-time video capturing(webcam)
- Used PoseNet neural network technique as a method to develop this project

Computer Vision – Face Mask Detector
- Trained two large datasets and then used a machine learning approach to develop the project
- Ran a function that captures video in real-time and can tell whether a human face has a mask or not

Robotics – 360 mobile controlled freight car with a robotic hand on top
- The car is mainly built using the Arduino platform
- The robotic hand can collect garbage and can put that in a bucket

Android – Etutor app
- This app can be used by students who need teachers based on their interest
- In this app students can select their preferred subject can see teacher's profile for home tutoring

Web Development – Cat Adoption website
- This is a website for adopting cat from a pool of cats
- Users can select their preferred cat based on their interest

WORK EXPERIENCE

Research Assistant – Daffodil International University   2019-2020
- Advisor: Assistant Professor Narayan Ranjan Chakraborty
- Worked on methods for using blockchain technology in various fields of computer science

Teacher – Janani FHB kinder Garten (owner)   2020-2022
- Taught students about the benefits of learning computer Science-related technology
- Organized special training for teachers about the teaching of primary level students to do better in PSC and JSC

TECHNICAL SKILLS

Programming Languages		**Skills**
-HTML	-C++	-Web Development
-CSS	-Python	-Data Analysis, Machine Learning
-JavaScript	-Solidity	-Implementing Smart Contract

AWARDS AND EXTRACURRICULARS

Competitive Programming Contest – Obtained the second position in the intra-university programming contest (Problem-solving**)**

Sports – Competed for school, varsity and, Upazilla level badminton tournaments and won top positions Several times

Scout – volunteered on APR scout workshop, Leader of "Green Sylhet, Clean Sylhet"   2022-present