

Md. Mahadi Hasan

B.Sc. (Engr.) in CSE

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Links

 www.linkedin.com/in/mahadi-hasann

 github.com/Root007x

 <https://leetcode.com/u/mahadirootx/>

Summary

Passionate computer science student developing skills in machine learning and deep learning. Currently working with tools such as TensorFlow, PyTorch, and scikit-learn and looking forward to applying hands-on machine learning or deep learning skills to projects. Very interested in learning more about and contributing to impactful AI solutions.

Personal Information

Date of Birth: 6 June, 2000

Religion: Islam

Blood Group: O+

Nationality: Bangladeshi

Education

B.Sc. (Engr.), CSE

Primeasia University

Current CGPA: 3.95

Higher Secondary Certificate, 2019

Dhaka Imperial College

Secondary School Certificate, 2017

Banani Bidyaniketan School and College

Languages

English

Bangla

Skills

Programming Languages

C/C++, Java, Python, Javascript

Hardware

Arduino uno, Nano, Micro, Soldering, Computer Assembly

Softwares

IDE's (code blocks, visual studio code, pycharm, google colab, jupyter notebook, arduino IDE), Figma, Office, Illustrator, Photoshop, Git, Github

Machine Learning/ Deep Learning

Tensorflow, Pytorch, Scikit-learn, Pandas, Numpy, Matplotlib, Yolo, Streamlit, Langchain (basic)

OS Practices

Windows, Linux (Ubuntu, Kali Linux)

Projects

Software Projects

- **CNN-Powered Insights into Rice Varieties and Leaf Disease Detection:** Conducted research on "CNN-Powered Insights into Rice Varieties and Leaf Disease Detection," developing a CNN and transfer learning-based framework for automated classification and disease detection. Evaluated 15 deep learning models, with EfficientNetB0 achieving the best performance. The work enhances agricultural automation and supports sustainable farming through AI-driven crop monitoring.
Link : github.com/Root007x/Rice_App
- **Worker Helmet Detection Using YOLO Model:** Constructed a helmet detection system utilizing the yolo model, resulting in precise detection in images, thereby improving workplace safety compliance. Trained on a dataset specifically created for the purpose of recognizing safety helmets in different situations.
Link : huggingface.co/spaces/root007x/Worker_Helmet_Detection
- **Dragon Fruit Maturity Classifier Using Transfer Learning:** Developed a classifier to determine if a dragon fruit is mature or immature in images, using transfer learning with PyTorch. Leveraged a pre-trained model to achieve high accuracy on a custom dataset, effectively distinguishing between maturity stages in various conditions.
Link : huggingface.co/spaces/root007x/dragon_fruit_maturity_classification
- **An Interface to collect all your photos at one go, using face detection AI technology:** This project develops an automated image organization system using facial recognition technology to streamline photo retrieval. By leveraging Python, OpenCV, and face recognition libraries, it matches user-provided photos with a large image repository, segregating and emailing relevant images.
Link : github.com/Root007x/photofi?tab=readme-ov-file

Hardware Projects

- **Medication Time Alarm System :** Developed an Arduino-based alarm system integrated with home automation to ensure timely medication reminders for patients and elderly individuals.
Link : github.com/Root007x/Medication-Time-Alarm-System
- **Gesture Control Car:** Designed and implemented a hand-gesture-controlled robotic car using Arduino Uno as the central controller, MPU6050 (6-axis accelerometer/gyroscope) for precise motion tracking, and nRF24L01 transceiver modules for low-power, 2.4GHz wireless communication between the transmitter (glove-mounted sensor) and receiver (car).
Link : github.com/Root007x/Gesture-Control
- **Line Following Robot:** Designed and built an autonomous line-following robot using IR sensors (TCRT5000) for precise path detection and Arduino microcontroller for real-time motor control
Link : github.com/Root007x/Basic-LFR



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