Hasnat Rafi Uddin

Software Engineer

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EDUCATION

Computer Science
Brac University
2021 – 2025

Higher Secondary Certificate
BCIC College
2018–2020

Secondary School Certificate
Noakhali Zilla School
2013 – 2018

SKILS

- Python
- ML
- Web Dev
- Pytorch
- Tensor FLow
- CISCO
- Problem-Solving

LANGUAGE

- English
- Bangla

PROFILE

A motivated and detail-oriented student with a foundational understanding of professional workflows. Possesses strong communication skills, a collaborative mindset, and the ability to adapt and perform well under pressure. Seeking opportunities to contribute and grow in a dynamic and flexible work environment.

PROJECTS

CraftFolio

CraftFolio, a portfolio generation platform where users can create and share normal or premium portfolios. Features include a user community for likes and comments, personalized portfolio links, PDF downloads, and a ticket-based support system for admin assistance.

Hand Gesture Controlled PDF Reader using MediaPipe

Created a gesture-based PDF reader that uses MediaPipe's HandGestureRecognizer to control navigation through hand movements. The system supports real-time gesture detection via webcam, enabling page flipping and interaction without touch. A custom model was trained on a rock-paper-scissors dataset using TensorFlow and integrated into both web and Python environments. This project highlights seamless gesture recognition, model deployment, and hands-free user interaction for digital reading.

Paddle

Paddle is a responsive bicycle rental platform built with HTML, CSS, JavaScript, and React. It allows users to register, select rental plans, and rent bikes by scanning codes at pickup (Point A) and drop-off (Point B) locations. The app features real-time bike availability and a smooth, user-friendly interface.

Helmet and License Plate Detection using YOLOv8

Built a YOLOv8-based system to detect motorcycle riders without helmets and automatically identify their license plates for legal and security purposes. Trained on dedicated helmet detection and Bangladeshi license plate datasets, the system achieved high accuracy (mAP@0.5: 0.886) and performed well in varied urban conditions, enabling automated enforcement and surveillance.