MD. SAJJAD HOSSAIN

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Professional Summary

Highly motivated Computer Science Engineering graduate with specialized expertise in machine learning, computer vision, and AI development. Demonstrated proficiency in developing CNN-based solutions and deep learning models for real-world applications. Experienced in creating comprehensive datasets and im-plementing cutting-edge technologies like YOLO for object detection. Passionate about leveraging AI and data science to solve complex problems in environmental monitoring and agricultural technology.

Education

Bachelor of Science in Computer Science and Engineering
East West University, Dhaka 2025

Higher Secondary Certificate (HSC) - Science
Dhaka Imperial College, Dhaka 2020
GPA: 5.00

Secondary School Certificate (SSC) - Science
Sher-E Bangla Nagar Government Boy's High School, Dhaka 2018
GPA: 4.56

Projects / Research

CNN-Based Computer Vision for Bangladeshi Flower Recognition
Developed a CNN-based system for identifying local flowers with mobile app deployment. Achieved high accuracy using Python and deep learning.

Microplastic Detection Using YOLOv11
Designed object detection system using YOLOv11. Integrated explainable AI for transparent results in environmental monitoring.

ColoredFlowersBD Dataset
Created a comprehensive image dataset of Bangladeshi flowers. Applied preprocessing and classification techniques for botanical research.

BDLemonLeaf Dataset
Compiled lemon leaf images for disease detection. Used computer vision for precision agriculture and plant health monitoring.

Technical Skills

- **Programming Languages:** Python, Java, C++, HTML, CSS
- **Machine Learning & AI:** CNN, Computer Vision, Deep Learning
- **Frameworks & Libraries:** TensorFlow, PyTorch, OpenCV, Scikit-learn
- **Object Detection:** YOLOv11, Image Classification, Pattern Recognition
- **Data Science:** Data Analysis, Statistical Modeling, Dataset Creation
- **Mobile Development:** Mobile App Deployment, Cross-platform Integration
- **Explainable AI:** Model Interpretability, AI Ethics
- **Research & Development:** Dataset Compilation, Academic Research

Languages

- English: Professional Proficiency
- Bengali: Native Proficiency

Referees

Available upon request.