Md. Maksudul Haque

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Portfolio: maksud-portfolio.vercel.app

Profile

Final-year Computer Science and Engineering (CSE) student specializing in deep learning and computer vision. Hands-on experience in developing and deploying models using PyTorch and TensorFlow for object detection and classification. Proficient in data preprocessing, model training, and full ML pipelines, enhanced by frontend web development skills for building responsive applications. Passionate about scalable, research-driven solutions.

Education

- **B.Sc. in Computer Science & Engineering** *2022 – Present*
  Green University of Bangladesh, Rupganj, Narayanganj, Dhaka
- **Higher Secondary Certificate (HSC)** *2020*
  Hazaribagh Government College, Hazaribagh, Dhaka 1209
- **Secondary School Certificate (SSC)** *2018*
  Kishoreganj Ideal High School, Kishoreganj, Dhaka

Technical Skills

- **Machine Learning**
  - **Frameworks:** TensorFlow, PyTorch, Keras
  - **Libraries:** Scikit-learn, OpenCV, Pandas, NumPy
  - **Specialization:** Computer Vision (Object Detection, Classification)
  - **MLOps:** Docker, Streamlit, Git
- **Programming & Development**
  - Python, JavaScript, C, SQL
- **Tools & Software**
  - VS Code, Jupyter, Google Colab, Kaggle, Roboflow, GitHub, Overleaf, MS Excel
- **Web Technologies**
  - React, Angular, HTML5, CSS3, Tailwind CSS

Machine Learning Experience

- **Machine Learning Intern** *Oct 2025 – Dec 2025*
  Robo Tech Valley, Dhaka
  - Contribute to research-based computer vision projects focusing on object detection and image classification
  - Participate in full ML development cycle: data preprocessing, model training, evaluation, and deployment
  - Collaborate with research team to design experiments and validate model performance

Projects

- **Egg Quality Inspector – Computer Vision System** *2025*
  Python, YOLOv8, Roboflow, Streamlit, OpenCV
  - Developed an end-to-end cracked egg detection system using YOLOv8 for real-time quality inspection
  - Annotated and augmented dataset using Roboflow; trained model achieved 94% precision on validation set
  - Deployed interactive Streamlit web application with confidence controls and analytics dashboard
- **Brain Tumor Detection from MRI Scans** *2025*
  Python, PyTorch, TensorFlow, CNN, OpenCV, Matplotlib
  - Built and trained CNN architectures (ResNet, VGG variants) for multi-class brain tumor classification
  - Preprocessed & augmented MRI dataset using OpenCV; applied data normalization techniques
- **Campus Navigation System with Pathfinding** *2024*
  Python, Dijkstra Algorithm, Tkinter
  - Implemented Dijkstra's algorithm for optimal path computation in campus environment
  - Designed interactive GUI with Tkinter for user-friendly navigation experience.
- **Tour Expense Manager** *2025*
  HTML, CSS, JavaScript
  - Web-based responsive system to track and share travel expenses among group members.

Certifications

- Machine Learning using Python – Simplilearn
- Artificial Intelligence and Machine Learning Fundamentals – Grameenphone Academy
- Introduction to Front End Development – Simplilearn
- Agile Scrum Master – Simplilearn

Strengths / Soft Skills

- Quick Learner
- Strong Analytical Skills
- Problem-Solving Mindset
- Effective Communication
- Teamwork and Collaboration

Languages

English (Professional Proficiency), Bangla (Native)

References

- **Mr. Syed Ahsanul Kabir**
  Associate Chairperson and Associate Professor
  Department of CSE
  Green University of Bangladesh
  Email: kabir@cse.green.edu.bd