MD SHAMIUL ISLAM

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SUMMARY

Dedicated Computer Vision and AI Engineer with a strong foundation in developing AI-driven solutions. Proven experience in deploying innovative approaches to solve real-world challenges. Passionate about leveraging deep learning to deliver impactful results.

EXPERIENCE

Data Science Intern ｜ Flip Robo Technologies LLC

January 2024 - June 2024, Remote

- Preprocessed and cleaned datasets, improving machine learning model accuracy by 15% and reducing preprocessing time by 20%.
- Developed and evaluated predictive models, achieving a 90% average model accuracy, providing actionable insights for business decisions.
- Analyzed data trends and patterns, driving a 10% increase in operational efficiency by informing key strategic initiatives.
- Conducted thorough research on algorithm optimization techniques, leveraging TensorFlow to improve model performance by 20% in a 6-week timeframe.

Software Engineer ｜ Agrani Doer Banking

March 2021 - July 2022, Dhaka, Bangladesh

- Developed a 48-form page application for Beemabox, simplifying the financial application process for users and reducing input time by 20%.
- Designed and implemented user-friendly UI/UX elements, enhancing overall usability and customer satisfaction.
- Resolved critical bugs and optimized app performance, decreasing load times by 30% and improving speed by 25%.

PROJECTS

Registration Plate Detection

github.com/shamiul5201/License_Plate_Detection, December 2024 - December 2024

- Developed an object detection model using Detectron2 with a COCO mAP of 57.6%, achieving 83.0% AP at IoU=0.50 and leveraging advanced technique-multi-scale training and feature pyramids.

Drowsy Driver Detection

github.com/shamiul5201/Drowsy_Driver_Detection, December 2024 - December 2024

- Implemented a Drowsy Driver Detection system using OpenCV and EAR-based eye tracking to monitor eye closure and yawning patterns, processing video frames at real-time speeds (~20 FPS) and enhancing driver safety through early drowsiness alerts.

Semantic Segmentation of Floodnet Dataset

github.com/shamiul5201/Semantic-Segmentation-for-FloodNet-Dataset, August 2024 - August 2024

- Developed a semantic segmentation model using DeepLabV3+ with an EfficientNetV2-S backbone to classify aerial imagery from the FloodNet dataset into 10 categories, achieving a Dice Score of 0.85.

EDUCATION

BACHELOR OF SCIENCE ｜ UNIVERSITY OF GREENWICH

2:1, 2024

- Specialized in Database Management, Human-Computer Interaction, and Information Management.
- Completed a Final Year Project on Banking Management System.
- Developed strong analytical, problem-solving, and technical skills through coursework and projects.

COURSEWORK

Deep Learning with TensorFlow and Keras

Deep Learning with PyTorch 2.x

Fundamentals of Computer Vision & Image Processing

SKILLS

Artificial Intelligence, Computer Vision, Deep Learning, Image Classification, Image Segmentation, Object Detection, Object Tracking, Video Analysis, Facial Landmark Detection, Face Recognition, Face Detection, OCR, TensorFlow, PyTorch, Keras, Python, Web Scrapping