Dilan Jayasinghe

Computer Vision Engineer | AI Engineer

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PROFESSIONAL SUMMARY

Computer Vision focused AI Engineer with hands-on experience in image classification, object detection, OCR, quality inspection, and edge AI deployment. Strong in OpenCV, PyTorch, TensorFlow, YOLO, image preprocessing, annotation workflows, and model optimization for production environments.

CORE TECHNICAL SKILLS

Python | OpenCV | PyTorch | YOLOv8 | TensorFlow | ONNX | Roboflow | NumPy | FastAPI | PostgreSQL | **Docker** | **Linux**

PROFESSIONAL EXPERIENCE

Computer Vision Engineer – VisionGrid AI, Kandy

Mar 2023 – Present

Developed YOLO-based defect detection models for textile inspection, reducing manual inspection workload by 35%.

Built OCR pipelines for extracting serial numbers and batch labels from product images.

Optimized models with ONNX export and quantization to support near real-time inference on edge devices.

AI Intern – TechNova Systems, Colombo

Jul 2021 – Feb 2023

Prepared image annotation guidelines and managed labeled datasets for object detection projects.

Trained CNN classification models and evaluated performance using confusion matrices and F1-score.

Created Flask demos to showcase model predictions to internal stakeholders.

SELECTED AI PROJECTS

Tea Leaf Disease Detection

Built a CNN-based mobile prototype to classify common tea leaf diseases using captured images.

Smart Parking Occupancy Detection

Developed a camera-based parking slot occupancy detector using object detection and perspective mapping.

EDUCATION

BEng (Hons) in Software Engineering – University of Westminster / IIT Sri Lanka, 2021

G.C.E. Advanced Level – Physical Science Stream, Dharmaraja College, Kandy

CERTIFICATIONS

OpenCV University: Computer Vision Bootcamp

NVIDIA Deep Learning Institute: Fundamentals of Deep Learning

Coursera: Convolutional Neural Networks

TOOLS & PRACTICES

MLOps basics, model versioning, experiment tracking

API integration, Agile delivery, technical documentation

Model evaluation, error analysis, monitoring, retraining

LANGUAGES

English – Professional Working Proficiency

Sinhala – Native

REFERENCES

Available upon request.

Dummy CV generated for sample use. All personal details are fictional.