# 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.