Anneliese Okwuosa-Marchand

Computer Vision Engineer
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SUMMARY

Computer vision engineer with 6 years building detection and segmentation models for retail and manufacturing. Runs shelf detectors on cameras in 300 stores, raised recall in low-light stores from 71% to 90% by fixing training data, and moved a counting model to an edge board at 14 frames per second.

EXPERIENCE

Senior Computer Vision Engineer — Shelfsight Analytics

San Jose, CA · Feb 2022 – Present

- Own shelf detection models running on 1,800 cameras in 300 grocery stores, retrained monthly on fresh data.
- Raised recall in low-light stores from 71% to 90% by collecting and labeling 6,000 images across lighting conditions.
- Moved a people-counting model to a low-power camera board with quantization-aware training and TensorRT, from 3 to 14 frames per second.
- Cut labeling time per image by 55% with model-assisted pre-labels and a 2-step review process.

Computer Vision Engineer — Quillstone Inspection

Fremont, CA · Jul 2019 – Jan 2022

- Built a circuit board defect detector used on 6 production lines, catching 94% of defects at a 1% false alarm rate.
- Rewrote labeling guides for 12 defect types and relabeled 4,000 images, raising precision from 82% to 91%.
- Found and fixed a frame-level data leak that inflated test accuracy by 9 points before a customer launch.

SKILLS

Languages: Python, C++, SQL

Vision and ML: PyTorch, OpenCV, YOLO, Detectron2, U-Net, timm

Deployment: TensorRT, ONNX, NVIDIA Jetson, Triton Inference Server, Docker

Data and MLOps: CVAT, Label Studio, Weights & Biases, DVC, Airflow

CERTIFICATIONS

NVIDIA DLI: Building Video AI Applications at the Edge

EDUCATION

M.S. Electrical Engineering, San Jose State University, 2019

Fictional example by FindAJobAI: the person, employers and numbers are invented.