Aisha Patel

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Machine Learning Engineer specializing in Computer Vision and deep learning optimization. Proven track record deploying complex neural networks into medical and autonomous production environments.

SKILLS

Core Competencies: Python, PyTorch, TensorFlow, OpenCV, CUDA, TensorRT, C++

EXPERIENCE

ML Engineer at VisionMed Diagnostics

Boston, MA • May 2020 - Present

- Trained and deployed segmentation models (U-Net) for MRI analysis, achieving 98% accuracy.

- Optimized model inference speed by 4x using NVIDIA TensorRT and CUDA optimizations.

- Built reproducible training pipelines using PyTorch Lightning and Weights & Biases.

Computer Vision Intern at DriveAI

San Jose, CA • Jun 2019 - Aug 2019

- Improved bounding box regression for pedestrian detection by 5% using custom anchor box generation.

PROJECTS

MedNet OpenSource

Open-source repository of pre-trained models for classifying common thorax diseases from X-rays.

Tech: PyTorch, Flask, Docker

EDUCATION

M.S. Computer Science (AI Track)

Massachusetts Institute of Technology • 2020