MANOJ KUMAR P
MACHINE LEARNING ENGINEER

Visit Portfolio

No 96, 11th Main Road,
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ABOUT ME

Computer Vision/Machine Learning Engineer with 2 years of experience, specializing in developing and deploying AI–driven solutions. Proficient in Python, OpenCV, TensorFlow, PyTorch, NVIDIA GStreamer, Docker, and AWS, with a strong focus on computer vision and model optimization. Passionate about building scalable, efficient ML systems, continuously learning, and contributing to collaborative and high–impact environments..

WORK EXPERIENCE

AI/ML Engineer   **08/2022 - Present**
Hacklab Solutions Private Limited, Bangalore, Karnataka, India

- Developing a productivity monitoring solution for SMEs using CCTV-based heatmaps and tracking with YOLO and BoT-SORT, optimized for Jetson Nano.
- Built a token detection system for paint manufacturing using YOLO, Redis, and SAP.
- Enhanced person tracking, PPE detection, and dataset tagging pipelines, improving model training and deployment.
- Skilled in computer vision, deep learning, and industrial automation.

Freelance Developer   **09/ 2020 - 11/ 2021**
Tamil Nadu, India

Collaborated on web and mobile application development projects for clients in India and abroad, utilizing ReactJS, React Native, and Flutter. Responsibilities included UI/UX design with Figma, developing scalable solutions, API integration, and managing deployment on AWS for optimized performance and cross-platform reliability.

EDUCATIONAL BACKGROUND

Bachelor of Engineering in Computer Science
Kongu Engineering College   **CGPA : 8.62**
Erode, Tamil Nadu, India | 2019 - 2023

AISSCE (HSC)
Major in Computer Science, Maths
Devi Academy   **CGPA: 8.66**
Chennai, Tamil Nadu, India | 2017 - 2019

AISSE (SSC)
Thamarai International School   **CGPA: 10.00**
Thanjavur, Tamil Nadu, India | 2016 - 2017

SKILLS

TECHNICAL SKILLS

- Linux, Python (Numpy, Matplotlib, Pandas, OpenCV), R
- Pytorch, Tensorflow
- Docker, Amazon Web Services
- Git, DVC, MLFlow
- Object Detection, Recognition, Tracking and NLP
- Linear Algebra, Statistics

SOFT SKILLS

- Teamwork, multitasking, detailing, time management
- Presentation skill, active listening
- Analysis, logical thinking, decision making

ACHIEVEMENTS

Received the title of "Best Engineer - 1" for the year 2023
Hacklab Solutions Private Limited, Bangalore, Karnataka, India

Received the "Best Project Award" for the year 2022 - 2023
Kongu Engineering College, Erode, Tamil Nadu, India