



RANJITH KUMAR A

MACHINE LEARNING ENGINEER

ABOUT

To enhance my working capacities, Professional Skills and Business efficiencies and to serve my organization in the best possible way with commitment. Currently working in the Deep learning Project using Python and machine learning.

CONTACT

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ADDRESS

5-karpagam Avenvue ,

Mandaveli,

Chennai-600028

EDUCATION

**AVM marimuthu Nadar higer secondary school,Sivakasi
HSC(2014-2015)**

92%

**AVM marimuthu Nadar higer secondary school,Sivakasi
HSC(2016-2017)**

79.5%

**Anna university,Trichy
B.E-Electronics and communications engineering(2017-2021)**

70%

WORK EXPERIENCE

Yocolabs pvt limited , machine learning engineer(1.3 years)

Project: Third Eye – Duration (Sept 2021 – Present) (CCTV ANALYTICS)

- It is the CCTV Analytics product which consists of 60+ Scenarios for Police, Hospital, Transport, Retail, etc..,
- Developed a custom object detection model using Pytorch's YOLO V5 model and INTEL OPENVINO Architecture for multiple use case scenarios for the Crime related Scenarios and Hospital related Management and used the LABELIMG tool for annotated the images
- Done Video Classification using the LSTM and CNN for sequence prediction
- Model conversion be like Tensorflow to Tflite conversion
- Model quantization and optimization for Deep learning models
- Used threadings, Multiprocessing concepts for doing parallel mechanism for analyzing the multiple video Feeds

Research and development:

- Deep learning models for Edge devices (Raspberry pi, INTEL NUC)
- Trained and Developed Tensorflow Classification models
- Video streaming for using advance technique FFMPEG,Gstreamer .
- Modified and customized Yolo and Openvino object detection codes
- Face recognition and object detection for using ESP32 Cam
- modified and Optimized Deep learning Object detection, Classification , Segmentation models

AWARDS

- Workshop on "image processing using MATLAB" at university college of engineering ,Trichy.

CERTIFICATION:

- I has been learn this certification course "Python for Data Science and Machine Learning Bootcamp

LANGUAGES:

- Tamil
- English

HOBBIES:

- Music
- Movies
- Sports

SKILLS

- Excellent knowledge of modern **computer vision** and **deep leraning** approaches.
- Ability to apply **analytical** and **problem solving** skills.
- Collaborate with **hardware, software** architecture.
- Excellent **teamwork** skill and **passioin ,creativity.productivity, learning agility.**
- Excellent **Python** and **OpenCV** programming skills.
- Strong **computer vision** skills.
- Solid understanding of **linear algebra, geometry, meshes, image processing**
- Basic coding knowledge of c/c++ programming.
- Experience with AI models development tools and frameworks such as **Keras,Tensorflow,Pytorch,caffe,Opencvino.**
- Experience with code optimization for **CPU, GPU** including **CUDA** and **OpenCL.**
- Demonstrated expertise in **computer vision ,Image processing,machine learning,NLP**
- Strong knowledge of **Embeeded** and **Edge devices** sucs as **raspberry pi ,Ardiuno,Esp32 .**
- preferable knowlegde of **NLP,Data analytics,Mysql,Flask,Data preprocessing.**
- Strong Knowledge **of Numpy ,pandas.**

PROJECTS

- **Implement a mobile phone monitor using CA3130 IC**

Its circuit that detects the presence of Mobile phone up to a certain range like 1.5 meter .Its used to detect a mobile phones in examination hall,meeting room & home etc.,

- **Implementation Automated Fire Engine Using Arduino (Final year project)**

To design an Automated Fire Engine using Arduino & their functions are controlled by mobile phone app via Wi-Fi medium.
Importantly mention our module can travel on both land & water surfaces like Hovercraft