THIRUMALAI VENKADESAN V

Project Engineer

Personal info

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Career Summary

- **1 years** of experience in developing & implementing algorithms for various projects in **Computer vision/Image processing.**
- Designing supervision models for **Machine Learning** projects.
- Proficient programming in **Python** and **MATLAB** Scripting.

Skills

Machine Learning	●●●●○
Deep Learning	●●●●●
Python Scripting	●●●●○
OpenCV	●●●●○
Keras & Sklearn	●●●●○
Image & Video Processing	●●●●●
Project design & Development	●●●●●

Professional Experience

Python Developer - Deep Learning & Machine Learning & Computer vision

Nov 2019– Present, Pantech ProEd Pvt Ltd., Coimbatore.

- Read and analyze the project requirement sheet to determine the techniques and duration needed.
- Developing Machine Learning Supervision Models using **Scikit-learn** and Neural Network Models **(CNN/RNN)** using **Keras** module in **Python**.
- Developing pattern recognition algorithms (LBP), Feature Descriptors (HoG) for CV Applications.
- Developed **detecting & tracking Dlib/Cascade** models for facial parts and Objects recognition in Video Processing.
- Developed image segmentation, object detection & tracking algorithms.
- Developed image processing algorithms such as Wavelets, Fourier, enhancement algorithms, remote sensing fusion algorithms and content based image retrieval.
- Generating the machine learning models & Neural Network model **(PNN/CNN)** in MATLAB for CV Applications.
- Implemented optical flow and background subtraction techniques in video processing.
- Deploying CV projects on RPi 3 B+ model.

Academic details

- **B.E. Electronics & Communication Engineering**
  2015-2018
  Graduated with 6.69 CGPA at Arjun College of Technology, Coimbatore.
- **Diploma, Electronics & Communication Engg**
  2011-2014
  Graduated with 78.9% at Sri Sowdambika polytechnic College, Aruppukottai.

Projects

- Project describes mobile based remote control and surveillance architecture without using motion sensors (hardware+IR) Using Deep learning And Machine learning.
- Real-Time Automatic Leaf Disease Identification & Fundas Image Classification
- A Smart Driver Fatigue Application for Local Driving Systems
- A Real-Time OCR Recognition for License Plate Recognition App with Python.

Achievements

- Provided seminar/session to team members for knowledge sharing.
- Given Deep & Machine Learning with Python workshops and seminars in number of colleges andtrained more than 100 students with excellent feedback.
- Improved the business levels by client satisfaction
- Admired by management for branch and department support

Declaration

I hereby declare that the information endowed above is genuine to the best of my knowledge and belief.

(THIRUMALAIVENKADESAN V)