Kale Sai Akash Pani Featured

Senior Deep Learning Engineer seeking roles in Python Programming,Image Processing,Artificial Intelligence,Machine Learning,Problem Management,Linux Programming,Coding,Stakeholder Management,Deep Learning,Python,C++,C,MATLAB,Pycharm,Anaconda,Tf

Current Designation: Senior Deep learning engineer

Current Company: PathPartner Technology

Current Location: Bengaluru / Bangalore

Pref. Location: Chennai,Hyderabad,Bengaluru / Bangalore

Functional Area: IT Software - Application Programming / Maintenance

Role: Software Developer

Industry: IT-Software/Software Services

Marital Status: Single/unmarried

Total Experience: 3 Year(s) 3 Month(s)

Highest Degree: B.Tech/B.E. [Electronics/Telecommunication]

Key Skills: python programming,image processing,artificial intelligence,machine learning,deep learning,python,c++,matlab,pycharm,anaconda,tensorflow,Clustering,Regression,Segmentation,Tracking,Optimization,Neural Networks,Embedded,Microprocessors

Verified : **Phone Number |** **Email - id**

Last Active: 21-Jan-21 Last Modified: 21-Jan-21

Summary

Senior Software Engineer at PathPartner Technology Services with 3+ years of experience in Deep learning, Embedded Vision, Computer vision and Image processing software design and development for desktop and embedded environments.
Software development experience using structural and object oriented programming.
Experience in developing image processing algorithms in C++, python, Matlab(beginner).
Experience in developing computer vision solutions using OpenCV.
Design and develop deep learning algorithms using Keras, Tensorflow, TF-Lite, Pytorch.
Experience in developing deep learning application for object detection using YOLO and custom designed DL Model.
Experience in developing deep learning application for person reidentification using siamese neural networks.
Experience in developing deep learning application for single shot object recognition using AI model trained using triplet loss.

Work Experience

PathPartner Technology as Senior Deep learning engineer
Sep 2020 to Till Date

development of deep learning solutions for edge devices

L&T Technology Services as Deep Learning Engineer
Oct 2017 to Sep 2020

Client: Shiran Survey and Research LTD
Project Title: Vision based system to detect, track and count various vehicles in traffic
Role: Associate Engineer

Overview
Intelligent Vision based system to detect, track and count various vehicles in traffic.
System also monitors the direction of traffic flow.
Solution Highlights
Deep Learning based approach to detect various vehicles like cars, trucks and motorbikes etc. in traffic.
Detect vehicles even when they are severely occluded.
Monitor the direction of every vehicle

Provision to mark roads to get road - wise logs of the number of vehicles

BUSINESS VALUE DELIVERED
Automated traffic monitoring takes considerably less time than current manual procedure
Minimize the subjective error introduced my human interventions
Smart City Use Cases
Statistical information of traffic movements can be used to get insights on traffic patterns and help manage traffic.
Identify locations for construction of new roads, new routes for public transportation to avoid traffic congestion.
City Heatmaps of highly congested and accident-prone junctions can be generated
Detect vehicles turning into restricted directions and trigger an alarm.
Detect over speeding vehicles.
Detecting vehicles breaking red lights.
Detects parked cars and calculates parking time.
Guide Drivers to vacant parking spots.
Detect cars parked in restricted areas.

KEY ACHIEVEMENTS
Trained different architectures and do feasibility test.
Classifying traffic into 7 types.
Ground truth marking of dataset after analysing.
Logic implementations for algorithm to work generic.
Siamese networks for Tracking.
Understanding Tracker.
Packaging Executable.

Client: Sinfonia Technology Co., LTD
Project Title: Smart Farming using AI
Role: Associate Engineer

Overview
Intelligent Vision based system measure features of plant which helps in good yield.
System also segment the parts of plant and flower.
Solution Highlights
Deep Learning based approach to detect flower and segment out the parts.
Detect flowers severely occluded.
Measuring the features of flower and plant which were identified by Agriculture researchers.
Semantic segmentation in Deep learning.

BUSINESS VALUE DELIVERED
Automated FARMING SYSTEM FOR GREEN HOUSES TO ADJUST CO2, WATER, LIGHTING

ACCORDINGLY.
Minimize the subjective error introduced my human interventions and REDUCE THE HUMAN

DEPENDENCY.
Smart fARMING Use Cases
Automated system which will adjust co2, water level, lighting conditions w.r.t Measured characteristics.
Getting more yield in small amount of place.
Detects plant even if pesticides were of same colour.
Can be used for any farm with identified characteristics.
Helps farmers to earn more.

KEY ACHIEVEMENTS
Trained different architectures and do feasibility test.
Trained segmentation model to segment out the parts.
Ground truth marking of dataset after analysing.
Logic implementations for algorithm to work generic.
Machine learning techniques for calculating features of plant.
Packaging Executable.

Client: Renesas Electronics Corporation
Project Title: People Counting Application on Embedded Device with Deep Learning
Role: Engineer

Overview
Intelligent Vision based system to detect the people in the Scenario using Embedded device.
System also localize the person in the scenario without any external support.
Solution Highlights
Deep Learning based approach to detect people.
Detect people when they were severely occluded.
Inventing a Custom Deep Learning Architecture to detect people.
localization using Deep learning.

BUSINESS VALUE DELIVERED

Automated PEOPLE COUNTING and LOW-COST solution.
improve Market value for embedded device.
People Counting Use Cases
Automated system which will count the number of people entering restricted areas, Shopping malls, Stadiums etc.
Getting solution within fraction of seconds.
Detects persons even he/she was highly occluded.
Can be used for any people counting use case.

Education

UG: **B.Tech/B.E. (Electronics/Telecommunication)** from **K L University** in **2017**

IT Skills

Skill Name	Version	Last Used	Experience
Python, C++, C, MATLAB			
machine learning and deep learning			
Keras, Tensorflow, Pytorch			
Linux, Windows, Yocto Linux			
Pycharm, Spyder, Anaconda Distribution,			
MATLAB, VS Code, gedit, vim etc.			

Languages Known

Language	Proficiency	Read	Write	Speak
English	Proficient			
Hindi	Proficient			
Telugu	Expert			

Affirmative Action

Physically Challenged: No

Work Authorization

Job Type: Permanent

Employment Status: Full time