Raja Mohan Rao Pyla 🔞 Featured

Senior Al Engineer seeking roles in Artificial Intelligence Development, Deep Learning, Machine Learning, Computer Vision, Data Science, Python, C, C++, C#, JAVA, Android Studio, Power BI, Azure, AWS, GCP, MySQL, SQLite, HTML5, CSS, Flask, Django, Al Edge devices, IOT.



Current Designation: Senior Al Engineer -IT Total Experience: 2 Year(s) 0 Month(s)

Current Company: Redeem Systems Pvt. Ltd. Notice Period: 15 Days or less

Current Location: Bengaluru / Bangalore Highest Degree: M.Tech [COMMUNICATION

Pref. Location: Bengaluru / Bangalore, Hyderabad, Mumbai SYSTEMS]

Functional Area: IT Software - Application Programming /

Maintenance

Role: Software Developer

Industry: IT-Software/Software Services

Marital Status: Single/unmarried

Key Skills: Senior AI Engineer, Software Developer, Artificial Intelligence Development, Deep Learning, Machine

Learning, Computer Vision, Data Science, Python, C, C++, C#, JAVA, Android Studio, Power BI, MS Visual

Studio, AWS, MySQL, Flask, Django, Unity3D, Augmented Reality, VR

Verified: Phone Number | Email - id

Last Active: 20-Jan-21 Last Modified: 20-Jan-21

Summary

2+ years of experience in Deep Learning, Machine Learning, Computer Vision and Data Science applications. Passionate about analysis, problem solving and learning new things. Done transfer learning for most of the AI models and hands-on experience in Deep Learning architectures. Had a good knowledge on Supervised and Unsupervised data related problems. Good knowledge and hands-on experience in AI related IOT, AI edge devices, and AI related Communication Systems applications.

Work Experience

Redeem Systems Pvt. Ltd. as Senior Al Engineer -IT Dec 2018 to Till Date

Title Smart Magnetic Door unlock using Raspberry Pi Description Unlocking the Magnetic Door either with Face, Password or

Fingerprint.

Duration 4 months

Role

Created a Facial Recognition system with FACENET in server to unlock using Face.

On Screen Touch Keypad and Finger Print access is also added to unlock Magnetic door.

Created a Graphical User Interface for these 3 unlock systems using Tkinter which is designed for 5-inch touch screen display.

Made design and its hardware connections. Done soldering for all components in designed Box.

Modules & Component

TensorFlow, Flask, OpenCV, Raspberry Pi, Tkinter, Touch display, Magnetic Lock, Power Amplifier, Relay, Finger Print sensor, Speakers.

Title Person Temperature Detection using Thermal Camera Description Based on the temperature value in Thermal camera, application allows weather person can be go inside or not. Duration 1 month

Role

Prepared data from thermal camera images and trained a DL model to detect whether person in a frame. We collected different numerical values and trained classifier to classify the value.

In addition, we also tried with custom OCR model (RNN & LSTM)

Module TensorFlow, OpenCV, Faster RCNN, RNN, LSTM

Title COVID-19 Precautions using CCTV camera system and Coral Dev Board.

Description Tracking the peoples Covid-19 precautions like Face Mask detection and Social distancing through CCTV systems and Edge Devices like Coral Dev Board.

Duration 2 months

Role

Created own set of images from different CCTV cameras with different heights.

Person detected on Yolo v3. Trained a Faster RCNN for CCTV and SSD model for edge device.

Flask, Docker and Kubernetes are used while deploying in CCTV system and Edge Device.

Module TensorFlow, Docker, Kubernetes, OpenCV, Faster RCNN, SSD, Flask, PYTORCH, Yolo v3, Coral Dev Board.

Artificial Intelligence Engineer Dec, 2018 to Dec, 2019
Title Personal Protective Equipment (PPE) Detection
Description Detecting Safety Equipment like Helmet, Jacket, Goggles, Shoes in
Construction Sites, Industrial Areas, etc. through CCTV and Drones
Duration 2 months

Role

Created own Dataset from client (Helmet, Jacket, Goggles, Shoes) and trained separately on Faster RCNN and SSD. Annotations was done for nearly 5k images and trained. Deployed for one CCTV camera with high end system. Module OpenCV, Keras, NumPy, TensorFlow, LabelImg tool

Title Number Plate Detection using CCTV Description From CCTV system, Vehicle number is taken and maintained a dashboard like IN and OUT of that vehicle. Duration 2 $\frac{1}{2}$ month

Role

Created Own Dataset (Car) from CCTV footage of client. Number Plates from CCTV footage are labelled and trained on Faster RCNN.

Applied either custom OCR or Azure OCR to the extracted number from Number plates.

Deployed for one CCTV camera with client server.

Module OpenCV, Keras, NumPy, TensorFlow, Azure, Tesseract

Title Facial Recognition with Liveness Detection
Description Unlock the locked application with face and gives access to the
application. Liveness detection is also applied for avoiding fake
login. One-shot learning along FACENET is used.
Duration 2 months

Role

For Liveness detection, I created own dataset from TIKTOK and trained a classifier for identifying Fake or Real frame. Developed application for login into learning portal and added Facial Recognition with liveness to it for avoid fake attacks or spoofing attacks with image, video and masks. Module NumPy, TensorFlow, OpenCV, Flask, Tornado

Education

UG: B.Tech/B.E. (Electronics/Telecommunication) from Jawaharlal Nehru Technological University (JNTU) in 2015

PG: M.Tech (COMMUNICATION SYSTEMS) from SRM university (SRMU) in 2018

IT Skills

Skill Name	Version	Last Used	Experience
Python			
C, C++, C#			
JAVA			
PyCharm			
Spyder, MATLAB			
MS Office, Power BI			
MS Visual Studio			
Android Studio			
Azure Cognitive Services			
AWS			
NumPy and SciPy			
Seaborn & Matplotlib			
OPENCV			
DOCKER			
Kubernetes			
TABLEAU			
Raspberry Pi			
MySql, Postgresql, SQLite			
HTML5 & CSS			
Flask & Django			
Tornado & Falcon			

Languages Known

Language	Proficiency	Read	Write	Speak
English	Expert			
Telugu	Expert			

Affirmative Action

Category: OBC - non-creamy

Physically Challenged: No

Work Authorization

Job Type: Permanent

Employment Status: Full time