

# SAI KRISHNA NAYINI

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## EXPERIENCE

**DeepEdge.ai**

Computer Vision Engineer

**Hyderabad, Telangana**

May 2020 - Present

Key Projects :

### 1. Face Detection and Face Recognition on Ambarella CV25. :

- Identified and evaluated a regression model utilizing CNNs to accurately detect and recognize faces in images and live stream, resulting in a 70% accuracy rate.
- Ported the model on camera hardware with Ambarella CV25 chipset, resulting in improving the overall model performance.

### 2. Benchmarkings on Ambarella and Qualcomm :

- Developed and trained a custom convolutional neural network (CNN) model to accurately detect two classes, and ported the model on to Ambarella CV22 and Qualcomm RB5 devices to identify the best matched device as per the requirement.
- Quantized the model to achieve good performance by maintaining the accuracy.
- Ported the model on Qualcomm RB5 accelerators I.e GPU, DSP, AIP and collected the benchmarkings.

### 3. Object Detection and classification model on Customer device:

- Developed and implemented a novel approach utilizing RESNET architecture to classify the desired object, achieving an f1 score of 0.95.
- Used yolov3 to detect objects, resulting in improvement of inference time and improving overall model performance.

### 4. Object Detection on Ambarella CV22 :

- Developed and trained a custom convolutional neural network (CNN) Yolov3-SPP model to accurately detect seven classes, and ported the model on to Ambarella CV22.

## INTERSHIPS.

**DeepEdge.ai**

Computer Vision Engineer

**Hyderabad, Telangana**

December 2019 - April 2020

- Used convolutional architectures for creating the custom models for real time detection and classification of people and vehicles and integrated on to the customer's hardware device.

## EDUCATION

**CVR College of Engineering**

M.Tech in Embedded Systems

**Hyderabad**

December 2018

## TECHNICAL SKILLS

**Programming Languages:** Python, C++ ,C, Shell Scripting

**Tools or Frameworks or Libraries:** Tensorflow, Keras, Pytorch, Numpy, Pandas, Scikit-learn, OpenCV, Docker.

## PROFESSIONAL SUMMARY

Good communication and interpersonal skills with proven abilities in resolving complex software issues.

Ability to work effectively and interact with other members in the team.

Very well organized with demonstrated ability to work under pressure, prioritize work and meet tight deadlines.

Expertise in developing **Embedded AI applications, Inference Applications and Cross Compilation.**