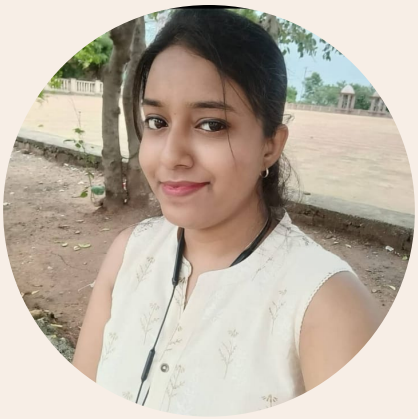

CONTACT

8999245553

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Pune, Maharashtra

TECHNICAL SKILLS

- **Tools & Services:** Tensorflow, Keras, Caffe, GCP ML App Engine, Github, LabelImg Annotation tools, OpenVX.
- **Programming Languages:** Python OOPS, SQL, C, C++
- **OS:** Windows, Ubuntu (Linux)
- **Libraries:** OpenCV, Numpy, Scipy, Pandas, Matplotlib.
- **Devices:** Google Coral Accelerator, GPU, Raspberry Pi, TPU, FPGA
- ML, DL, Model Implementation (5+ years)

ASHWINI PORKUTE

SENIOR ENGINEER

PROFESSIONAL EXPERIENCE

Company: Softnautics - A Moschip Company
Experience: 5 + years (APR 2018 - OCT 2023)
Designation: Senior Engineer

PROJECTS:

Project: Human detection on Lattice's ECP5.
Client: Lattice Semiconductor

- We detected the Human presence from the image on Lattice's ECP5 Board.
- Worked on Human image data collection, image preprocessing, Augmenting, and Annotation.
- Also worked on Freezing, Visualization of model layers using TensorFlow, and training the model.
- Inference and model Evaluation, Analyzing, Compiling, and Simulating the model on the SensAI2.0 tool and Deploying it on the ECP5 Diamond Programmer tool.

Project: Human count on Ultra-Plus.
Client: Lattice Semiconductor

- Human counting from images on Lattice's Ultra-Plus Board.
- Working on Human image data collection, image preprocessing, annotating images and tools research, and model modularization.
- Visualization of model layers using TensorFlow, Training the model, and Finetuning.

EDUCATION

B.E in Electronics and Telecommunications, Nagpur

CERTIFICATIONS

Vector India Pvt Ltd (Embedded Course), Banglore
Period: 6 months

LANGUAGES

- English
- Hindi
- Marathi

PERSONAL INFORMATION

- Gender: Female
- DOB: 18th April 1994.
- Marital Status: Married
- Hometown: Nagpur
- Personal Strength: Quick Learner, Punctual, Hard Working, Adaptive.

PROJECT: OBJECT DETECTION USING YOLOV3

- Detection of various objects on an image using YOLO darknet architecture.
- Understanding the model layers and about YOLO, Training the model.
- TensorFlow Framework understanding, Finetuning the model to achieve better Accuracy.

PROJECT: TEXT DETECTION USING MOBILENET SSD

- Detection of Text messages or contents on an image, Understanding the MobileNetV1 model and SSD, Image collection, and preprocessing.
- Including the augmentation and Labeling in Pascal VOC format and converting the dataset in TF-Record Format.
- Deployed on Google Coral Accelerator, Compiled model using EdgeTPU Compiler, Inference code generation.

PROJECT: PERSON DETECTION ON GCP ML APP ENGINE

- Working on GCP ML App Engine service, detecting the person's presence from images using Flask.
- Deploying this flask app which can provide detection results from local images and from image URLs.

PROJECT: OPTIMIZATION OF CV KERNELS FOR ZSP VERISILICON

- Implemented and optimized the Vision kernels and reduced the computations by reducing the ZSP cycles on ZSP 128i architecture.
- Implemented Vision kernels with their variants from OpenVX 1.2 specification reference using ZView IDE from Verisilicon for compiling the code for ZSP.
- Validated using the CTS framework, and visually for each vision kernel.

I confirm that the above information is true and correct to the best of my knowledge.
Date:
Place:
Signature:

ASHWINI P. PORKUTE