Abdul Sathar

Computer Vision Engineer

Computer vision Engineer with 3 years of experience. Cover all stages of ML life cycle from problem understanding to model deployment and evaluation. Quick learner of new technologies.

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WORK EXPERIENCE

Software Engineer
Quest-global

10/2018 - Present   *Trivandrum*

Achievements/Tasks

- Wave peak **Detection** from Ultrasound doppler image for calculating E/A Ratio of the heart using **YOLO V3 network**. Got accuracy 95.8% which is superior in performance to customer's competitor.
- Wave **segmentation** from normal and noisy ultrasound Dopler image using **UNET** for calculating *left ventricle outflow tract velocity* of the heart.
- **Edge detection** of carotid artery from ultrasound image to calculate its thickness Using **RCF network.**
- **Classification** of machine parts for guiding the user to set up an X-Ray diffractometer using **Googlenet**.
- **Optimization and integration** of deep learning models in low-end devices using **Intel OpenVINO**.
- Experience in using **OpenCV and Numpy** for data preprocessing, post-processing and other **image processing tasks.**
- **Training, testing, Optimization and deployment** of the Deep learning model to real machines using various deep learning frameworks like **PyTorch, TensorFlow** and integration Tools like **TensorRT, ONNX Runtime, OpenVINO** etc.
- Deployment of deep learning model in the server using **NVIDIA Triton Server** for scalability and speed.
- Experience in using **Docker containers.**
- Expertise in **Python, C++, scripting & Automation.**

Software Engineer
Factweavers

07/2017 - 10/2017   *Kochi*

Achievements/Tasks

- Gained exposure to Big Data Analysis in Java using Elastic search.

EDUCATION

B.Tech
Govt. Model Engineering College, Kochi

08/2013 - 04/2017   *CGPA - 6.9*

Courses

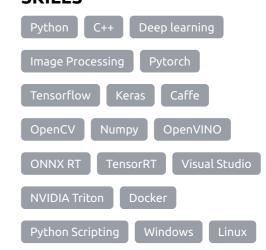- Computer Science and Engineering

Higher Secondary Education
GVHSS Madappally

06/2011 - 03/2013   *Percentage - 94%*

High School Eduction
NAMHSS Peringathur

03/2011   *Percentage - 98%*

SKILLS

Python · C++ · Deep learning · Image Processing · Pytorch · Tensorflow · Keras · Caffe · OpenCV · Numpy · OpenVINO · ONNX RT · TensorRT · Visual Studio · NVIDIA Triton · Docker · Python Scripting · Windows · Linux

ACADEMIC PROJECTS

Solution for Recognition and Execution of Handwritten Code

- An Android app that captures the picture of handwritten program code using an android phone and displays its Output.
- Technology: Android studio, Django, Python, OpenCV, Tesseract OCR, Git.

ACHIEVEMENTS

Got ON THE FLY AWARD for integrating RCF network on low-end CPU with good performance.

LANGUAGES

Hindi
Limited Working Proficiency

English
Professional Working Proficiency

Malayalam
Native or Bilingual Proficiency

Arabic
Limited Working Proficiency

INTERESTS

Deep learning SOTA · Reading · Learning · Youtube · Badminton