Shubham Baid

+91-9939236719 - shubhambaid99@gmail.com - linkedin.com/in/shubhambaid21

Summary

With a strong foundation in AI development, C++, and Python, I am a dynamic professional who excels in development and optimising inference pipelines for platforms like Jetson, OpenVINO, and ARM NN. This expertise ensures peak AI performance across varied hardware. In addition to technical prowess, I have garnered 2.5 years of dedicated experience in the field of AI, cementing my commitment to democratising AI's accessibility and impact, particularly within visual computing. My expertise in computer vision and leadership skills further equip me to drive innovation and shape the future of AI and computer vision.

Experience

Senior AI Engineer
05/2022 - Present
Sparkcognition | Bengaluru, India

- Building School safety related use-cases like weapon detection and shooter reidentification across different cameras on our flagship product, VAIA (Visual AI Advisor).
- Leading a team of AI Engineers and guiding them to adapt right practices for streamlined development and timely deliverables.
- Building optimised computer vision pipelines and use cases based on it for a small resource footprint for Jetson, ARM and DGPU platforms.
- Training and optimising object detection, image classification, segmentation and OCR models.

Senior AI Engineer
12/2021 – 05/2022
Integration Wizards Solutions | Bengaluru, India

- Acquired by Sparkcognition in 2022
- Developed ALPR module with high acceleration and less footprint on resource usage and is deployed across more than 500 sites across different countries.
- Worked on the development of use-cases and the training of different computer vision models for quality assurance and HSE for some of the largest industries across the globe.
- Awarded as Rising Star for my significant contributions across different projects in a short time.

AI Engineer
06/2021 – 12/2021
Integration Wizards Solutions | Bengaluru, India

- Modified Neural Network architectures such as YOLO, EfficientDet e.t.c to make it best fit for use-cases.
- Trained custom computer vision models for hygiene maintenance and covid protocols and deployed on scale for the largest FMCG warehouses in India.

Education

REVA University | B.Tech in Computer Science and Engineering
Graduated 2021

- Cumulative GPA: 8.4/10
- Best Outgoing Student, 2021
- Founded Hackathon Club and led the organizing team to conduct 2 national level hackathons with participants from across the country.

Certifications

- Tensorflow Certified Developer, **Tensorflow** 2023
- Jetson AI Specialist, **Nvidia** 2021
- Edge AI Specialist, **Intel** 2021
- Neural Networks and Deep Learning, **Deeplearning.ai** 2020
- Convolutional Neural Networks, **Deeplearning.ai** 2020

Skills

- **Programming Languages:** C/C++, Python
- **Software and Libraries:** OpenCV, PyTorch, Tensorflow, ONNX, Deepstream SDK, TensorRT, Openvino SDK, ARM NN, Flask, FastAPI, Docker, MySQL.
- **Operating Systems:** Linux, Windows
- **Soft Skills:** Team management, Adaptability, Creativity, Time Management.

Research Experience

Detection of Different Degrees of Skin Burn using YOLOv3
06/2020
Research carried out during undergrad term at REVA University, with 3 co-authors to detect the skin tissue burn severity using neural networks, Yolov3 was trained over a set of images collected through open-sourced sources and accuracy of 86% was achieved. link

Projects

YetiCoach
09/2022

- Solution was developed to provide visual analytics for skiers, winner of HackZurich 2022 track prize by Swisski, Sunrise GMBH and Huawei.
- The visual analytics consists of the tilts and distance of skis using Yolov5 and OpenCV to check for skier movement during different slope angles, the depth of slope was determined using monocular depth estimation model MonoDepth.

AutoSnotBot
10/2019

- Autonomous drone-based solution to collect whale snots, in order to predict whale health and oceanic floral bloom, runner-up of Sentinel Hack 2019.
- Whale and snot detection done using Yolov3, which later was being inferred on images sent from DJI Tello through UDP. And the mock snot data was later used to train a ML model for health prediction and floral bloom detection.