VINEETH VOORADI

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EDUCATION

B.TECH, ELECTRICAL ENGINEERING, IIT KANPUR - 6.93/10.0 2014-19

12th, SR Junior College, Warangal - 96.6% 2012-14

10th, Srinidhi High School, Warangal - 9.8/10.0 2011-12

EXPERIENCE

CHIEF TECHNOLOGY OFFICER, *Sensovision Systems*, Bengaluru Mar '22 - Sept '24

Sensovision specializes in building end-to-end optical sorting machines, specifically designed for visual inspection within the fastener manufacturing industry, rapidly expanding its portfolio. As Chief Technology Officer, I have led the development of numerous new products, conducting research on existing market-leading solutions, defining development timelines and benchmarking.

- ➢ Led and managed a team of 6+ developers in the development of computer vision applications optimized for a range of devices including CPU, GPU, embedded devices (Raspberry Pi, Jetson Nano), and cloud platforms.
- ➢ Developed low-latency image processing modules in C++/OpenCV for dimensional inspection, achieving high-performance results on CPU and GPU.
- ➢ Implemented real-time deep learning segmentation modules for surface defect inspection, leveraging technologies such as C++, OpenCV, OpenVINO, and PaddlePaddle.
- ➢ Designed and supervised the development of a web-based deep learning training platform, enabling users to sign up, subscribe, and train models on their own data. Utilized technologies such as ReactJS, Django, PostgreSQL, Docker, Python, and PaddlePaddle.
- ➢ Developed a vision inspection application on Raspberry Pi, featuring a web-based interface that captures and processes images in real-time for defect inspection. Technologies employed include Django, HTML/JavaScript, Python, C++, and Pybind.

NLP Research Engineer, *ezDI Solutions*, Ahmedabad Jul '20 - Mar '22

- ➢ Extensively researched on developing a "Explainable knowledge-driven DL-based system" for automated conversion of unstructured radiologists' reports into structured synoptic documents by incorporating structural information from open-source databases like UMLS, using a Zero-Shot Learning approach.
- ➢ Created an NER module with a reinforcement-learning based controller to optimize the concatenation of pretrained contextual representations (GloVe, BERT, XLNet) for improved performance.
- ➢ Designed a drift-detection module by monitoring confidence scores on multiple layers and EI-KMeans partitioning to monitor input distribution changes during model deployment. Improved confidence measures for BERT predictions beyond softmax-based scores. Additional projects included an

ML-based clinical abbreviation disambiguation module and a DL-based unbordered table-detection module.

Computer Vision Engineer, *SensoVision Systems*, Bengaluru Dec ’19 - Jul ’20

- ➢ Developed real-time high-performance image-processing algorithms (C++) to be deployed in industrial automation, specifically inspection.
- ➢ Involved in developing modules related to various vision-based applications ranging from Dimensional Analysis to surface-defects detection to OCR.

SKILL

Technical:

- Computer Vision
- NLP
- DL Model Inference Optimization for real-time applications
- Low latency C++ image-processing algorithms
- Cloud Application Development
- Developing applications on embedded devices (raspberry pi/jetson nano)

Tools:

- Python, C++
- PyTorch, paddlepaddle, tensorflow
- Django, ReactJS, HTML/Javascript, docker
- Qt, bash scripting, camera interfacing.