

NITHIN VADEKKAPAT

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Skills

Technology: Computer Vision, Signal Processing, Machine Learning, Deep Learning, Large Vision Models, Multimodal AI, Cloud Architecture, System Architecture, Edge Architecture

Programming Languages: Python, C, Julia

Management: Team Selection and Mentoring, Product Management

Experience

Dhvani AI

2021 – Present

Research Director

Chennai

- A venture funded, IIT-Madras Research Park incubated startup is working in research and development of AI platform for Non Destructive Testing and Evaluation. As a research director my responsibilities include developing AI models for different domains like CT, X-ray, Ultrasound, Magnetic Particles and Machine Vision, architecting solution, team selection and mentoring

Wobot Intelligence

VP-Engineering

Delhi

- A Sequoia funded start up in computer vision and video analytics for retail stores. As VP-Engineering, my responsibilities include developing cloud based AI pipeline, selection and evaluation of AI algorithms, overseeing data sampling and validation, team selection and mentoring

Yantra AI

CTO

Pune

- A sister concern of Yantra Automation Pvt. Ltd., Yantra AI works in developing machine learning solutions for manufacturing. As a CTO my role was in developing an AI stack on an edge device for monitoring quality and safety, listen to customer requirements and solution architecture, team selection and mentoring

Castalia Research Labs

Co-Founder and CEO

Pune

- A bootstrapped startup in Machine Vision founded in 2013. As CEO, my responsibilities were creating technology road-map, customer acquisition and go-to-market strategy along with team selection and mentoring

Tata Elxsi

Senior Engineer-ADAS

Trivandrum

- As a senior engineer in Jaguar and Landrover ODC, my responsibilities include selection, prototyping and evaluation of algorithms for Lane Departure Warning, Traffic Sign Recognition and Pedestrian Detection

Projects

1. **AI based Automated Defect Recognition of Automotive 3D Volume using CT**|BHGE-Germany
2. AI based Automated Defect Recognition of Aerospace 2D X-Ray Computed Radiography Image Data Sets
3. AI Based Automated Defect Recognition of Li-Ion Battery 2D Volume X-Ray Flat Panel Image Data Sets
4. Data Fusion Algorithms for multi-modal NDT data sets for oil and natural gas applications
5. AI based ADR for Aluminium Casting Inspection using Digital X-ray
6. Automatic Machine Vision system for MPI of shafts and cylinder parts