

Ajay Gopi

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OBJECTIVE

AI professional with 5+ years of experience delivering scalable production AI solutions, transitioning to academia to pursue advanced research in latent space modelling and representation finetuning.

EDUCATION

Rochester Institute of Technology
Master of Science in Artificial Intelligence

Rochester, USA
Aug 2024 – Dec 2025(exp)

SJB Institute of Technology
Bachelor of Engineering in Computer Science
Grade: First Class With Distinction

Bangalore, India
Aug 2014 – July 2018
Avg: 71.3%

TECHNICAL SKILLS

Operating System: ArchLinux, Ubuntu, Windows

Languages: C++, Python, C

Frameworks & SDK: Pytorch, Keras, TensorRT, Deepstream, Flask, Pandas, Scikit, OpenCV, Dlib

Certifications: Nvidia Jetson AI Specialist

RESEARCH EXPERIENCE

Computation Biomedicine Lab, RIT
Graduate Research Assistant, Advisor: Prof. Linwei Wang
Research Interests: Few Shot Adaptation, Causal Inference, Representation Learning

Rochester, USA
Nov 2024 – Present

PROFESSIONAL EXPERIENCE

Avathon
AI Architect

Bangalore, India
Aug 2019 – Aug 2024

- Promoted 4 times within 5 years, taking on increased responsibilities in development and leadership roles.
- Designed and built the Visual AI Advisor (VAIA) edge inference pipeline, currently live across 1000+ banking and retail locations.
- Implemented a variation of stacked model inference technique, improving object detection model accuracy by over 20% on downstream tasks.
- Optimized computer vision models for both ARM-based and x86 architectures, improving performance and efficiency for edge computing applications.
- Implemented dynamic control logic for several downstream computer vision tasks, including HSE compliance monitoring, football recognition, and fire detection.
- Managed and delivered multiple projects, overseeing timelines, gathering customer requirements, and ensuring successful outcomes across diverse computer vision applications.
- Led the implementation of vision analytics to recognize football patterns for the largest shopping mall chain in India, achieving over 95% accuracy.
- Developed vision AI solution to enhance surveillance capabilities for one of the world's largest banks.

Entropik Tech, Bangalore, India
Computer Vision Intern

July 2018 – Jan 2019

- Contributed to their patented facial coding technology to recognize human emotions and human eye tracking.
- Automated facial action unit (AU) extraction using keypoints obtained from facial landmarks.
- Used support vector machine (SVM) algorithms to classify facial action units for human facial expression recognition.
- Introduced tracker based mechanism in the facial coding pipeline leading to reduced inference costs and sped-up the pipeline by 50%

ACADEMIC PROJECT

Scene Flow Estimation of Autonomous Vehicles | *Python, Keras, PCL*

- Trained a regression neural network based off of VGG16 for scene flow estimation using 3D Point Clouds.
- Implemented custom data loaders for feeding inputs to the neural network in keras.
- Visualized the obtained point cloud data using point cloud library (PCL).

RELEVANT COURSEWORK

Stanford 236 Deep Generative Models, HTM Theory by Numenta, Linear Algebra by Gilbert Strang