

Ajay Gopi

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PROFESSIONAL SUMMARY

AI professional with 5 years of industry experience, transitioning to academia to pursue advanced research in AI. Seeking to leverage industry insights and technical proficiency in AI / computer vision to contribute to cutting-edge research. Adept at bridging the gap between theoretical concepts and practical implementations, with a keen interest in pushing the boundaries of AI technology through research.

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

Bangalore, India

Aug 2014 – July 2018

Grade: First Class With Distinction

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

Rochester, USA

Nov 2024 – Present

Research Interests: Few Shot Adaptation, Causal Inference, Representation Learning

PROFESSIONAL EXPERIENCE

Avathon

AI Architect (VAIA Team)

Bangalore, India

Dec 2021 – Present

AI Lead

Jun 2021 – Dec 2021

Senior AI Engineer

Jul 2020 – Jun 2021

AI Engineer

Aug 2019 – Jul 2020

- Designed and built the computer vision inference pipeline, which is now used in over 1000+ banking and retail locations.
- Implemented an inference technique that improved the accuracy of the neural network model by more than 20%.
- Was a key member of the Visual AI Advisor (VAIA) R&D team responsible for improving the Vision AI inference pipeline as well as training and developing custom computer vision models.
- Delivered a solution that assisted in preventing theft from a banking institution, resulting in them saving assets worth several thousand dollars.
- Was in charge of delivering vision analytics to recognize footfall patterns to the largest shopping mall chains in India at high accuracies (95+).
- Developed a Vision AI solution to aid surveillance at one of the world's largest banks and a Fortune 500 Company.
- Optimized neural networks for inferencing on ARM and x86 architectures.

Entropik Tech

Computer Vision Intern

Bangalore, India

July 2018 – Jan 2019

- Contributed to their patented facial coding technology to recognize human emotions.
- 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%
- Performed statistical analysis on facial coding benchmark data and worked towards improving the eye tracking pipeline.

ACADEMIC PROJECT

Pose Estimation of Autonomous Vehicles | *Python, Keras, PCL*

- Trained a regression neural network based off of VGG16 for scene flow estimation using 3D Point Cloud Data.
- Wrote 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