

# Mohit Ram Kumaragurubaran

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## Education

**SRM Institute of Technology** – B.Tech Computer Science and Engineering w/ AI & ML 9.41 cgpa 2025  
**The PSBB Millennium School** – PCM stream w/ Computer Science 89% cbse board 2021

## Work Experience

**Cyber Assurance Analyst (Intern)**, KPMG India – Chennai, TN January 2025 – Present

- Performed SOC 1 and SOC 2 reports for internal controls on financial reporting (ICOFR) for IT services and financial services.

**Machine Learning Engineer (Intern)**, GoDB Tech Pvt. Ltd. – Chennai, TN July 2023 – August 2023

- Evaluated cost-effective alternatives to proprietary recommendation engines for insurance policies
- Assessed open-source solutions based on their feasibility, performance, and ease of implementation
- Identified promising alternatives to proprietary systems while significantly reducing licensing costs

## Skills

**Languages:** Python, C++, C#, Javascript, SQL, Shell script (Linux)

**Frameworks:** Tensorflow, Pytorch, Keras, Flask, Pandas, Seaborn, Node.js, OpenCV, OpenAI Gymnasium

**Tools:** Git, Jupyter, Docker, Amazon Web Services (AWS), PowerBI

## Projects

### Deep Reinforcement Learning Game Agent for DOOM

- Configured VizDoom environments & trained game agent with Gymnasium in the shooter game DOOM
- Developed an asynchronous training method with Worker-Learner processes to reduce training time
- Reduced training time by 4x compared to conventional methods without degradation in performance

### Artistic Neural Style Transfer for Creative Teams

- Developed a neural style transfer pipeline for artwork with emphasis on content preservation
- Built using ComfyUI and Stable Diffusion XL for processing artwork
- Results in saved time and manpower for creative teams looking to enforce consistent style guidelines

### Perspective-agnostic Image Classifier using Superglue

- Developed system that can classify images taken in the same environment, even from different perspectives
- Built using Transformer-based local feature matching and Superglue for working with sparse features
- Accurately classifies batches of images taken in the same location using environmental features

### Flask-based Distributed Polling System

- Developed a backend webservice for synchronous polling from multiple end user devices using Flask
- Implemented a .csv-based system for the collection of poll statistics
- Deployed system on 12+ individual devices and utilized for the student body council elections

## Conferences and Publications

**Deep Reinforcement-based Learning Agents for Gameplay Strategies**, Recent Advancements in Communication, Computing and Artificial Intelligence RACCAI-2024

## Positions of Responsibility / Extracurricular Activities

**Student Coordinator**, Zypher'24 AI Symposium – Managed a technical event for the symposium, organized participants and activities

**Organizing Committee Lead**, Millennium MUN'19 – Managed the finance team, delegate registrations and committee allocations

## Languages

**English** (Native fluency), **Japanese** (Professional Working Capacity), **Tamil** (Professional Working Capacity)