

Aniketh Garikaparathi

✉ aniketh.apr04@gmail.com —  [anikethh.github.io](https://github.com/anikethh) —  [Google Scholar](#)

EDUCATION

IIIT Delhi, India

Bachelor of Technology (*with Honors*)
Computer Science and Design

December 2020 - May 2024

CGPA: 8.45/10.00

Ahlcon International School, India

Class XII, Science + Economics
Central Board of Secondary Education

April 2019 - March 2020

Aggregate: 94.2%

EXPERIENCE

TCS Research

Research Fellow
Advisors: Manasi Patwardhan, Lovekesh Vig

Aug 2024 - Present

Pune, India

Working on **AI4Research**. Assisting researchers through scientific paper recommendation, automated hypothesis generation, code generation etc.

MathWorks

Software Development Intern
Manager: Chirag Gupta

May 2023 - July 2023

Bengaluru, India

Worked with the Code Generation Team on researching and developing an MVP system for integrating LLMs with Simulink. Implemented a custom transpiler to parse ASTs and execute NL commands in a low-resource language.

PUBLICATIONS

MIR: Methodology Inspiration Retrieval for Scientific Research Problems

ACL 2025

Aniketh Garikaparathi, Manasi Patwardhan, Aditya Kanade, Aman Hasan, Lovekesh Vig, Arman Cohan

IRIS: Interactive Research Ideation System

ACL 2025 (System Demonstration)

Aniketh Garikaparathi, Manasi Patwardhan, Lovekesh Vig, Arman Cohan

PROJECTS

Recomposing the RL Building Blocks with Hypernetworks

Reinforcement Learning Course Project

Project Link: [GitHub Repository](#)

Dec, 2023

- Implemented a novel variation of the Soft-Actor Critic Deep RL algorithm that employed the use of Hypernetworks, a Deep Learning architecture where a neural network controls the weights of another neural network. Inducing a greater level of interaction between the task and action representations
- My variation introduced the use of a prioritized experience replay buffer and dual actor network, improving efficiency and stability.

3D Bounding Box Estimation using Deep Learning and Geometry

Computer Vision Course Project

Project Link: [GitHub Repository](#)

Jan, 2023

- Implemented 3D bounding Box Estimation algorithm using deep learning and geometry. We leverage the power of convolutional neural networks (CNNs) and multi-view geometry to estimate the bounding box dimensions of 3D objects from 2D images accurately.

Cab Booking Service Database

DBMS Course Project

Project Link: [GitHub Repository](#)

Jan, 2022

- Designed a database management system like Uber. The web application manages Data of drivers and their vehicle, customers, rides, ratings, and locations. The application makes use of concepts of indexing, triggers, views, and grants and includes embedded queries using Python's Flask framework to manage the backend.

SKILLS

Expertise Deep Learning, Natural Language Processing, Object Oriented Programming

Languages Python, Java, JavaScript, C/C++, MATLAB

Tools and Technologies PyTorch, Flask, Git, Docker, Simulink, Pandas, JavaFX, NetworkX

POSITIONS OF RESPONSIBILITY

Teaching Assistant, Prototyping Interactive Systems

Jan, 2024 - May, 2024

- Undergraduate TA for junior year course Prototyping Interactive Systems (DES-206) at IIIT-Delhi, taught by Prof. Richa Gupta

Mentor, Student Mentorship Program

Jan, 2023 - May, 2023

- Mentored students as part of the Student Mentorship Program, offering support and guidance to help them navigate their academic and personal challenges.

Club Coordinator, Philosoc (Philosophy Society of IIITD)

Oct, 2022 - Aug, 2023

- Working with Professors in institute and inviting guest lecturers to hold talks on exciting topics. Organizing events and managing the club's finances.

Creatives Head, TEDx IIITD

Dec, 2021 - Feb, 2022

- Responsible for deciding the identity of TEDx, leading the Creatives Team, and marketing the event, working alongside a team of 20+ people for conducting the event.

PR and Organizing Team, Odyssey (Cultural Festival at IIITD)

Oct, 2022 - Jan, 2023

- Managing event logistics, coordinating with vendors and sponsors, and promoting the fest on social media and other channels.

VOLUNTEERING

Volunteer, Chhalaang NGO

Jan, 2023 - Dec, 2023

- Engaged in fieldwork activities, including community outreach and support initiatives, to address local needs.
- Conducted workshops to teach women valuable skills, empowering them for personal and professional growth.
- Provided public relations assistance, managing social media campaigns and events to raise awareness and support for the NGO's mission.

RELEVANT COURSEWORK

Advanced Programming, Algorithm Design & Analysis, Computer Organisation and Operating Systems, Discrete Math, Linear Algebra, Probability & Statistics, Fundamentals of Database Management Systems, Computer Networks, Deep Learning*, Computer Vision*, Reinforcement Learning*, Digital Image Processing*, Generative Adversarial Networks, Information Retrieval*

(* - Graduate Level Courses)