

# **PRATIRATH GUPTA**

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## **ABOUT MYSELF**

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As an emerging Computer Science engineer specializing in Artificial Intelligence, I excel in Python, C, and Java. Driven by a passion for Software Development, Machine Learning, and Data Structures & Algorithms, I thrive on solving complex problems and working effectively both in teams and independently. I am eager to contribute to and grow with an organization in the long term, while enhancing my domain-specific expertise.

## **WORK-EXPERIENCE**

### **Artificial Intelligence Research Work**

Nov 2023 – Jan 2024

Worked under college professor on the topic of various search algorithms for predictions.

- Compared search algorithms such as Harmony Search, Late Acceptance Hill Climb Search, A\* Search
- Predicted medical data including Brain Cancer Data, COVID-19, using various symptoms.
- Analyzed algorithms based on F1 Score, Precision Value, Fitness Value, and Execution Time.

### **Core Member, IEEE Student Branch, AVV Amaravati**

June 2023 - June 2024

- Organized events and workshops, including IEEE Day and "Web Development in a Nutshell."
- Developed skills in teamwork and public speaking.

## **EDUCATION**

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- ***Bachelors of Technology (CSE with AI specialization)***

Amrita Vishwa Vidyapeetham, Amaravati

GPA:8.61

2022 - 2026

- ***Bachelors of Science (Data Science, Online Mode),***

Indian Institute of Technology, Madras

GPA: 8.00

2022 – 2026

## **SKILLS**

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**Programming Languages:** Python, C, C++, Java & JavaScript.

**Front End:** HTML, CSS, React JS.

**Back End:** NodeJS.

**Machine Learning:** Keras, OpenCV, TensorFlow, OpenAI, MySQL, Seaborn.

**Database:** MySQL, MongoDB.

**Soft Skills:** Communication Skills, Collaboration, Problem-Solving, Adaptability, Time Management, Continuous Learning, Empathy, Leadership, Conflict Resolution, Customer Focus, Curiosity, Self-Discipline.

## LEADERSHIP EXPERIENCE

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**Chairperson** – ACM Student Chapter, AVV Amaravati Sep 2023 - Present

- Developed and conducted programs on technology, personal development, and academic performance.
- Utilized public speaking skills to present hall programs, educating residents on critical aspects.

**Co-Founder** – Tech Club, AVV Amaravati Nov 2022 - Present

- Delivered a range of teaching and coding activities, including tutorials.
- Provided guidance to over 50 college mates.

## PROJECTS

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- **Face Mask Recognition:** Developed a Face Mask Detection system to detect masks in static images and real-time video streams. Built a custom dataset using Bing Search API and Kaggle.
- **Library Management System:** Created a Library Management system with both admin and user interfaces. Features include adding/removing books and users, issuing/searching/returning books with fine calculation. Utilized Django for the backend, MySQL for DBMS, and HTML+CSS for the frontend.
- **Daily Investor Notification:** Implemented a program that sends daily notifications about the current price, high, and low of a given commodity using the y-finance library in Python.
- **Hotel Management System:** Designed a Hotel Management system with both admin and customer interfaces. Admins can alter menus, check customer orders/details, and manage users. Customers can browse the menu and place orders seamlessly. Utilized Django for the backend, MySQL for DBMS, and HTML+CSS for the frontend.
- **QR Code Generator:** Created a program that generates a QR code for a link or a file using Python.
- **Personal AI Voice Assistant:** Developed a personal AI Voice Assistant to assist with daily tasks using Python and OpenAI.