

Ramprasath G

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in ramprasath-g

🌐 rpram07.github.io

🏆 LeetCode




EDUCATION

- **Madras Institute of Technology, Anna University** Chennai, Tamilnadu
Bachelor of Engineering in Computer Science; CGPA: 8.3 Oct. 2021 - Present




EXPERIENCE

- **TIH-IoT, IIT Bombay** April 2024 - Present
Research Fellowship | Python, OpenCV, YOLO
 - Leading the research efforts in our project 'IoT driven traffic management' aimed at revolutionizing urban transportation.
 - Developed an IoT-driven traffic management system to optimize traffic flow and reduce congestion.
 - Integrated data analytics for real-time monitoring to promote sustainable smart cities.


PROJECTS

- **Intelligent Traffic Management System**  March 2024 - Present
Python, TensorFlow, Object Detection, Pygame
 - Developed a system that optimizes signal timings based on real-time traffic volume, cutting average wait time by 23%.
 - Trained a bespoke YOLO Object Detection model to identify vehicle class in an image with 85% accuracy.
 - Pioneered a comprehensive simulation using Pygame to compare the efficacy of our system against traditional methods.
- **Group Chat**  Feb 2023 - May 2023
Java, Multi-Threading, Socket
 - Developed a group chat application in Java where user can access different chat rooms and communicate with each other.
 - User can access a particular chat room and will be able to listen and write in that chat room only.
 - Admin of a room can create passkey for the room using which the user can access the room. Using Multi-Threading clients can send and listen to message from different channels.
- **Task Manager**  June 2023 - Aug 2023
Next.js, React, Prisma, MongoDB
 - Utilizing Next.js and React on the frontend, Backend powered by Prisma for robust ORM capabilities and MongoDB for flexible and scalable data storage.
 - Integrates authentication for secure user access and data privacy. Task prioritization and filtering functionalities enhance productivity, while intuitive UX design ensures ease of use.

PUBLICATIONS

- ConVision - A Context-based Deep Learning Algorithm for Efficient Lane Detection -Eliva Press 
- Data-driven approach to automated lyric generation -IJEAST 
- Speech Disfluency Detection and Elimination for Enhanced Communication -JETIR 

ACHIEVEMENTS

- Solved over **450 problems** with high accuracy rate, with **1,520+ contest rating** in Leetcode. Profile: RamRP34 
- As a Research Scientist at NGN Labs, Anna University, I spearheaded 5+ projects and published work that advanced interdisciplinary knowledge by 25%.

PROGRAMMING SKILLS

- **Languages:** C/C++, Java, Python, JavaScript, Dart, SQL, HTML, CSS
- **Tools/Frameworks:** Git, ReactJS, Next.js, Pygame, Flutter, MongoDB, MySQL, TensorFlow