

Mehul Kumar

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EDUCATION

B.Tech in Computer Science Engineering (Software Engineering)
SRM University, Kattankulathur, Chennai

Sep, 2021 - Mar, 2025
CGPA: 8.8

WORK EXPERIENCE

Fullstack Intern at NHPC LTD, Faridabad

Jun, 2023 – Sep 2023

- Enhanced UI performance by **20%** through revamped user interface and modularized slider components with **ReactJS** and **TailwindCSS**.
- Optimized backend efficiency by implementing **RESTful APIs** with **Node.js** and **Express**, reducing data retrieval time and improving overall application performance.

Frontend Intern at Saraayat

Aug, 2023 – Nov, 2023

- Built an e-commerce application using **React.js**, **Node.js**, and **MongoDB**, optimizing performance to reduce latency and improve load time by **25%**, resulting in enhanced user engagement and satisfaction.
- Engineered innovative solutions to optimize website performance and user experience.

PROJECTS

Drone Obstacle Avoidance System

Dec, 2023

- Engineered a drone navigation system using **OpenCV**, **NumPy**, and **DroneKit**, achieving **95%** obstacle detection accuracy with stereo vision, reducing collision risk by **80%**, and improving autonomous flight efficiency by **60%**. [Github Repository](#)

The GitHelper, [View](#)

Oct, 2024

- Built an AI-driven GitHelper chatbot using **Next.js**, leveraging keyword matching from a command file to explain **Git commands** with interactive inputs, achieving response times under **500 ms** to assist developers and beginners effectively. [Github Repository](#)

Mass Mailer

Sept, 2024

- Developed a Mass Mailer tool using **Node.js** and **SMTP**, optimizing asynchronous processing by **40%** to ensure efficient and reliable email delivery, making it ideal for newsletters, promotions, and scalable notifications. [Github Repository](#)

Hand Gesture Recognition System, [View](#)

Aug, 2024

- Designed and implemented a gesture recognition system using **Python** with **CNN** and **NLP** models, achieving **95%** detection accuracy and **20%** faster processing for real-time, efficient, and accurate gesture-to-text translation.

ImageGate, [View](#)

Oct, 2024

- Developed ImageGate, a full-stack image retrieval application using **Next.js**, **Express**, and **MongoDB**, achieving **95%** image retrieval accuracy with Pexels API integration and optimizing pagination to enhance load efficiency by **90%** for seamless image browsing. [Github Repository](#)

SKILLS

Programming Languages	Python, JavaScript, Java, SQL
Frameworks & Libraries	Tailwind CSS, Bootstrap, Express.JS, Node.JS, React.JS, React Native, Next.JS, OpenCV, NumPy, DroneKit
Databases	MongoDB, MySQL
Tools	Git, Figma, Postman, Wordpress, Github, materialUI, JWT, OAuth, CI/CD, Git, Visual Studio
Key Expertise	Data Structures and Algorithms, Object Oriented Programming, Operating, Algorithm Analysis, SDLC, Advanced problem solving
Soft Skills	Team player, Effective communication, Problem Solving, Time Management, Adaptability

CERTIFICATIONS

Oracle Cloud Infrastructure 2023 Foundations Associate [Link](#)
Machine Learning Foundations, Issued AWS Academy [Link](#)
Python Certificate, Issued by NPTEL [Link](#)
UI/UX Designer Certificate, Issued by Coursera [Link](#)

PROFESSIONAL PROFILES

Leetcode - <https://leetcode.com/u/mehul271102/>
Codeforces - <https://codeforces.com/profile/mehul271102>
Hackerrank - <https://www.hackerrank.com/profile/mk3416>
Portfolio - <https://mehul2711.me>

ACHIEVEMENTS

- Published a research paper at IEEE (ICoACT 2025) titled "Developing a CNN and NLP Integrated System for Translating ASL Into Human Language" [View](#)