

# Mridul M Kumar

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## Summary

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A recent Computer Science graduate from IIIT Bhopal with strong skills in **DSA, OOPs, and full-stack development using the MERN stack**. Experienced in building scalable applications and seeking a software engineering role to contribute and grow in a dynamic tech environment.

## Education

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Indian Institute Of Information Technology Bhopal,

Dec 2021 - June 2025

Bachelor of Technology in Computer Science and Engineering

- Completed core coursework in **DSA, OOP, DBMS, OS, Computer Networks, and COA** with practical implementations.

## Personal Projects

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Job Application Portal | MERN Stack

[Live Link](#) | [Repo Link](#)

- Developed a full-stack job management system with secure JWT authentication and role-based access.
- Implemented role-based login/register and personalized dashboards for Admin, Employer, and Applicant.
- Integrated MongoDB (Mongoose) to manage 5000+ records and resume uploads.

Personal Portfolio Website | React.js, JavaScript

[Live Link](#) | [Repo Link](#)

- Built a modular front-end using React.js with 15+ reusable components for scalability and maintainability.
- Ensured 100% mobile responsiveness using CSS3 Flexbox and Grid.
- Integrated GitHub and resume sections to highlight technical experience and achievements.

Plant Disease Detection Model using CNN

[Repo Link](#)

- Developed a Convolutional Neural Network model to classify 38 plant diseases with **96% accuracy**.
- Pre-processed 87,000+ images using augmentation techniques to improve model generalization.
- Reduced validation loss by 30% through early stopping and learning rate tuning.
- Tools & Technologies: **Python, TensorFlow, OpenCV**.

## Training

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Google Cloud Practitioner Program (April–July 2022)

*Silver League Innovator – Remote*

- Gained hands-on experience with Google Cloud Platform (GCP) through guided labs and practical sessions.
- Worked on GCP services like virtual machine deployment and Kubernetes setup to build real-world cloud proficiency.
- [Cloud Profile](#) | [Developer Profile](#)

## Technical Skills and Interests

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- Programming Languages:** C, C++, Python, Java
- Web Development:** HTML5, CSS3, Bootstrap, Vanilla CSS, React.js, Node.js, Express.js
- Developer Tools:** Visual Studio Code, Chrome DevTools, Git, GitHub
- Cloud & Databases:** Google Cloud Platform (GCP), MongoDB
- Other Technologies:** RESTful API Development, JWT Authentication, MVC Architecture

## Positions of Responsibility

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- Club Member**, Innovation and Cultural Club (ICC), IIIT Bhopal
- Club Member**, Google Developer Student Clubs (GDSC), IIIT Bhopal

## Achievements

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- GATE 2024:** Qualified Graduate Aptitude Test in Engineering (Computer Science).
- HackOn With Amazon – Season 3:** Cleared the quiz round of the national-level hackathon organized by Unstop.
- CodeChef Global Contest:** Secured a global rank of 278 in the July Long One Challenge 2022 (July 11).
- CodeChef Rating:** Currently in Division 3 with a peak rating of 1572.