

# Varun R Mallya

B.Tech sophomore at IIT Roorkee | Developer at SDSLabs

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[Linkedin](#)  
[Github](#)

## EXPERIENCE

### SDSLabs, IIT Roorkee — Developer

Feb 2024 - PRESENT

We work with various languages & frameworks including C++, OpenGL, SDL, React.JS, Golang, Rust. We build projects that are open source and participate in various CTFs and hackathons.

## EDUCATION

### IIT Roorkee, Uttarakhand — B.Tech Mechanical Engineering

August 2023 - August 2027

Semester 1 SGPA: **9.3** with 10 in 4 out of 6 subjects

Semester 2 SGPA: **10** (Department topper)

Current CGPA: **9.636**

### Deeksha CFL PU College, Bangalore — IInd PUC

January 2020 - February 2022

PCMCs, graduating with 97.33% with 100s in Physics, Chemistry, Mathematics and 99 in Computer Science. State rank 13

JEE Mains AIR 4193 (99.63 percentile)

KCET Rank 31

JEE Advanced AIR 3656

## PROJECTS

### MentoGram — A mentorship web app

[github.com/varun-r-mallya/mentogram-final](https://github.com/varun-r-mallya/mentogram-final)

Written on the MERN stack, it makes use of WebRTC for real time video transmission, has an internally implemented file manager in Node.JS, basic CRUD login functions and chat implemented with Socket.io with frontend written in React.JS

Also uses Docker for program compilation and y.js for collaborative

## SKILLS

Software Engineering

C++ Object Oriented  
Programming

Golang Server Programming

JavaScript with React.js

Docker

Linux

Python for AI and automation

Git

Makefile

x86-Assembly

Figma

## Other notable points

Competitive Programming  
Online Judge(s): [Codeforces](#)

Member of the Debating  
Society IIT Roorkee:

Participated in various  
international level Debating  
tournaments.

WatchOut IIT Roorkee:

Wrote editorials, scraped data  
and managed editorial teams  
to get news for the whole  
campus.

programming.

### **MVC-LMS — A Library Management System written in Go** [github.com/varun-r-mallya/MVC-LMS-SDS](https://github.com/varun-r-mallya/MVC-LMS-SDS)

Written in Go, it uses the Go html template engine to render pages with MariaDB/MySQL as the database. It is a full fledged Library manager with features including JSON Web Tokens, secure routes, password hashing. Is completely Dockerized with Docker Compose along with config files for Apache to virtually host on your computer.

### **Review Reply Bot — NLP based reply bot** [github.com/varun-r-mallya/byop](https://github.com/varun-r-mallya/byop)

Uses TF-IDF to tokenize and vectorize datasets for reviews and sorts and replies to reviews using Latent Dirichlet Allocation for topic extraction. Also uses NLTK as an alternate means for tokenization.

### **PokeRPG — Pokemon game written with canvas in JS** [pokerpg-tan.vercel.app](https://pokerpg-tan.vercel.app)

Pokemon game written in JS with the canvas feature of HTML5. Uses the Poke API to get pokemon data. All artwork was made by me except the pokemon themselves.

### **Plant Watering IOT system — ESP8266 based IOT system** [github.com/varun-r-mallya/Plant\\_watering\\_system](https://github.com/varun-r-mallya/Plant_watering_system)

Uses an ESP8266 to connect to the internet and uses [this](#) as the frontend to control pumps and get data from soil moisture and temperature sensors to a Google Sheets backend that also functions as a database for the frontend application. Uses Google App Script.

#### **LANGUAGES**

English, Hindi, Konkani,  
Kannada, Sanskrit  
(Elementary proficiency)

#### **REFERENCES**

[Ankit Bansal, Associate  
Professor, IIT Roorkee](#)

[Nikil Kumar Singh, Assistant  
Professor, IIT Roorkee](#)