

Sudhanva R Mangalwede

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Education

Terna Engineering College

Navi Mumbai, India

Bachelor of Engineering- Computer Engineering; CGPA: 9.26(Till 7th Sem)

July 2021 - May 2025

Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases

Rao Junior College Of Science

Thane, India

Science(PCMC)-97.3%

June 2019-May 2021

Skills Summary

Languages:	C++, HTML, CSS, Javascript, Python, Java
Frameworks:	NodeJS, ExpressJS, ReactJS, Scikit-learn, NLTK, Tensorflow, NLP, Pandas, OpenCV
Tools:	GIT, Github, AWS, Docker, Debugging(chrome dev tools)
Platforms:	Web, Windows, Linux
Database:	Mysql, MongoDB, SQL language
Soft Skills:	Leadership, Communication, Event Management, Time Management,Collaboration

Experience

IonIdea - Software Engineer Intern

Bengaluru, Remote

Student Developer

Feb 2025 - Present

- **Languages:** Python, NodeJS, ReactJS, FastAPI, MySQL
- Assisting in the development of the student-side interface for a timetable management system by extracting and displaying schedule, instructor, and attendance data. Collaborating in a team to implement frontend or backend functionalities
- Created responsive web interface using **React.js** and working on backend database integration.

Vinyasa Summer of Code - Contributor

Bengaluru, Remote

Student Developer (Part-time)

June 2024 - July 2024

- **Languages:** HTML, CSS, Javascript, NodeJS, ReactJS
- Increased efficiency by **20%** in projects like **AnimateHUB** and **Foodsy** by optimizing ReactJS pages and implementing best practices in scalable UI/UX design.
- Delivered **8 PRs**, ranking in the **top 15** contributors by addressing key system bottlenecks.
- Certificate

Research Intern

Terna Engineering College

Student Researcher

Jan 2024 - April 2024

- **Web Of Synonyms:** Developed the Web of Synonyms model, a query engine that derives efficient keywords with the help of graph that was developed by extracting synonyms from the web.
- **Tools and Methods:** BeautifulSoup, NLTK, Wu-Palmer, Graphs

Projects

Sci-Tech Crawl | *Python, NLP, AI*

Aug 2024-Present

- **Recommendation Model:** The "Sci-Tech Crawl" project is focused on developing a domain-specific web crawler for science and technology. Provides recommendation based on semantic and textual understanding of the webpage.
- The Tf-IDF values of the content in scraped web page is calculated for best keywords, that will be stored in the knowledge base. Whenever a user inputs a query it searches the knowledge base for the relevant tags and applies syntactic and semantic similarity using BM25 and Llama AI embeddings and rank URLs.Thus reducing the redundancy in crawling the URLs

Attendance using Face recognition | *Python,pandas,face-recognition,CNN*

Jan 2024-May2024

- Trained an **ML model** achieving 97% accuracy in recognizing students and marking attendance automatically.
- **Key Features:** Generate class-wise and subject wise attendance of students

ShopO - Multivendor webapp | *MERN stack*

Jul 2023-Nov 2023

- **For local shops:** A multivendor web app which was designed for local shops who weren't having a platform to make their business online. Shop owners could register themselves on our website and sell their products to their nearby residents
- **Key features:** Email authentication for users, Payment gateway integration, Tracking of Delivery, Invoice generation

Publications

Web Of Synonyms- Research Paper: Presented the paper at the International Conference On Intelligent Computing and Big Data Analytics 2024, proceedings are published by Springer CCIS series- [Link to the paper](#)

Licenses and certifications

- Problem Solving(Intermediate) Hackerrank Certificate
- Mongo-db Basics
- SQL Hackerrank certified
- Enrolled in AWS cloud practitioner essentials on AWS skill builder

Coding Platforms

- Leetcode/Sudhanva-Mangalwede-Solved 130+ questions with rating of 1540
- GeeksforGeeks/Sudhanva-Solved around 100+ questions

Volunteer Experience

Event Management at Google Developer Student Clubs: Organized technical workshops and created the event calendar, impacting 400+ students.

Event Organizer at Sports Committee: Organized events, conducted sports, and supervised games like carrom and chess reaching over 500 students