

SMITI OSWAL

Second Year Undergraduate
Computer Science and Engineering
Indian Institute of Technology, Mandi

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SKILLS SUMMARY

- **Languages:** C++ (Proficient), Python (Proficient), JavaScript (Intermediate), PHP (Intermediate), SQL (Intermediate)
- **Web Development:** HTML (Expert), CSS (Expert), NodeJS (Good), Flask (Good), ReactJS (Good)
- **Others:** Git (Good), Github (Good), VS Code (Proficient), MongoDB (Good)

EDUCATION

- **Indian Institute Of Technology, Mandi** Himachal Pradesh, India
Bachelor of Technology - Computer Science; GPA: 8.00 Dec 2021 - June 2025
Relevant Courses: Data Science (I, II and III), Data Structures and Algorithms (ongoing), Mathematical Foundations of Computer Science (ongoing), Applied Databases Practicum (ongoing)

EXPERIENCE

- **Women Engineers Program of Talentsprint supported by Google** Remote
WE Scholar 2022 - 2024
 - Enhancing problem-solving and computational thinking through Technical sessions on Python
 - Inculcating the best coding practices at par with the industry standards
 - Focusing on all round development through **Google** Mentoring Sessions and Corporate Soft Skills Sessions

PROJECTS

- **Diabetic Retinopathy Analysis using Machine Learning** 
Project Link *in progress*
 - Building a model with clinical potential using image classification, pattern recognition and deep learning
 - Working on simplifying the labor-intensive task of detecting diabetic retinopathy
 - Aiming at increasing cost-effectiveness and accuracy of screening and diagnosis
- **Blog website using Python and Flask with user authentication** 
Project Link October 2022
 - Created a blog with support for posts, likes and comments, along with security and authentication using Flask
 - Languages and Frameworks: Python, HTML, Bootstrap, Flask, Jinja Templating
- **Flappy Bird project using NEAT-Python** 
Project Link August 2022
 - Developed a Python-based AI to play the game of Flappy Bird
 - Implemented the **NEAT** (NeuroEvolution of Augmenting Topologies) Python algorithm
 - Creating randomised configurations to improve performance by search and optimise technique
- **Study repository using Google Drive API with Google Login authentication** 
Project Link March 2022
 - Developed a Google Drive API-based utility to allow students to freely exchange study material
 - Enabled user authentication with Firebase using their **Google** accounts
 - Languages and Tools: Javascript, HTML, CSS, Firebase

HONORS AND ACHIEVEMENTS

• Women Engineers Scholar, 2022

- Selected as one of the 250 students across India out of 28,000 applicants for a full program scholarship by Talentsprint, supported by **Google**
- Completed Hacktoberfest by contributing to open-source projects with 8 accepted pull requests
- Winner of freshers coding contest organised by Programming Club in college on Beecrowd. Solved 350+ problems
- Secured 1st position in Algohack organised by ACM-W of college (hacking problems by giving appropriate test cases)
- All India Rank of 4833 in JEE Advanced

EXTRACURRICULAR

- Core team member of Programming club of IIT Mandi; actively participated and conducted various coding events
- Achieved A1 proficiency in German
- Volunteer in NSS (National Service Scheme), IIT Mandi
- Member of Chess Club; winner of freshers chess tournament