



# Sahil Chavan

Bachelor of Technology  
in Mechanical Engineering  
Indian Institute Of Technology, Ropar

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## EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	7.33 (Till 4th Sem)	2022-Present
Senior Secondary	Higher Secondary Certificate Examination(Maharashtra Board)	85.33%	2022
Secondary	Indian School Certificate Examinations(ICSE)	97.6%	2020

## PROJECTS

- **Movie Recommendation System** 2024  
*Self-made Project* **Github**
  - Recommendation systems in Python use data-driven approaches and algorithms, like content-based and collaborative filtering, to provide personalized suggestions, enhancing user experiences and driving business growth in environments with vast information using KNN Model.
- **Face and Hand Landmarks Detection using Python, Mediapipe and OpenCV** 2024  
*Self-made Project* **Github**
  - Using the MediaPipe Python library's Holistic model, we can detect and access face and hand landmarks for applications like sign language interpretation and drowsiness detection in computer vision.
- **Fake News Detection Model using TensorFlow in Python** 2024  
*Self-made Project* **Github**
  - This project involves developing a TensorFlow-based deep learning model to detect fake news using the *fake\_news\_dataset*, with steps including importing libraries, preprocessing data, generating word embeddings, designing the model architecture, and evaluating predictions.
- **Robot Vacuum Cleaner** Mar 2024 - May 2024  
*IOT* **Github**
  - Designed and developed a sophisticated robot vacuum cleaner with capabilities to detect and collect dirt, and intelligently avoid obstacles.
  - It was a group project(5 members).
- **Softwheel Robot** Mar 2024 - May 2024  
*Design Lab* **Github**
  - Engineered and created a softwheel robot capable of traversing diverse terrains and skillfully maneuvering around obstacles.
  - It was a group project(5 members).
- **Two Cylinder Engine** Oct 2023 - Nov 2023  
*Machine Drawing* **Github**
  - Designed a CAD Model of Two Cylinder Engine in Solidworks.

## TECHNICAL SKILLS

- **Programming Languages:** C/C++, Python, HTML5, CSS3
- **Frameworks/Libraries:** NumPy, Pandas, SQL, Matplotlib, Keras, TensorFlow, Scikit-learn, PowerBi, Solidworks
- **Softskills:** Creativity, Communication Skills, Teamwork, Time Management, Leadership, Problem-solving

## KEY COURSES TAKEN

- **CSE & Maths:** Introduction to Computing and Data Structure, Calculus, Linear Algebra, Differential Equations, Probability and Statistics
- **Mechanical Core:** Machine Design, Theory of Machine, Solid Mechanics, Engineering Thermodynamics, Fluid Mechanics, Engineering Mechanics
- **Others:** Basic Electronics, Economics

## POSITIONS OF RESPONSIBILITY

- **Core Team member of Non-Core Team**, Career Development and Placement Cell(CDPC), IIT Ropar Feb. 2024 - Present
- **Technical Team(Web-Dev)**, Entrepreneurship Cell(E-Cell), IIT Ropar Dec. 2022 - April 2023

## MISCELLANEOUS

- **Advance Certification in Data Science and AI**, Collaboration with IIT Madras and certified by Intellipaat Feb. 2024
- **JEE Advance**, AIR 11533 among 1.5 lac qualified appearants 2022
- **JEE Mains**, AIR 23107 among 10-12 lacs appearants 2022