

Sahil Warade

📍 <https://sahilwarade.github.io/Portfolio/>

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Education

Pune Institute of Computer Technology, B.E. in Information Technology (with Honours in Data Science)

2022 – 2026

GPA: 8.01 / 10

St Paul School, Nagpur, HSC (Class XII)

2019 – 2021

Percentage: 94%

Internship

PICT, Pune – Research Intern

Feb 2025 – April 2025

- Developed an AI-enabled drowsiness detection system using **OpenCV EAR** and **CNN models** for real-time driver monitoring
- Integrated a **large language model (LLM) conversational module** to engage users upon detecting drowsiness
- Contributed to publication of a **research paper detailing architecture and evaluation** (moved full citation to Publications)

Projects

YouTube Sentiment Sarcasm Analyzer | Python, Flask, Transformers, Google API

Feb 2024 – April 2024

- Built a web app to extract YouTube comments and perform **sentiment analysis** (VADER) and **sarcasm detection** (pre-trained BERT model)
- Added extractive summarisation using **summy LexRank** for concise video summaries
- Designed a modular **Flask NLP pipeline** for multi-task inference

AI Real-Time Chat App | Flask, SocketIO, Redis, PostgreSQL, Docker

Nov 2023 – Jan 2024

- Built a scalable AI-powered chat platform handling **50+ concurrent users** with real-time SocketIO and Cohere integration
- Designed the AI inference as a **Dockerized microservice** for modular deployment and scaling

Advancements in Malware Detection| Python, Flask, HTML, CSS, JS

August 2024 – October 2024

- Developed machine learning models to classify executables as malicious or benign using KNN, XGBoost, voting classifiers, and randomforests.
- Achieved high accuracy and reduced false positives through rigorous model validation

Technical Skills

- Core Concepts:** Data Structures & Algorithms, Operating Systems, Computer Networks, DBMS
- Languages:** C++, Python, SQL
- Frameworks:** Flask
- Databases:** MySQL, PostgreSQL
- Technologies:** Socket.IO, REST APIs, Microservices, Hugging Face Transformers, Basic NLP
- Tools:** VSCode, PyCharm, Jupyter Notebook, Git, GitHub, Linux

Publications

- AI-Powered Drowsiness Detection using LLM**, Journal of Technology, Volume 13, Issue 6, 2025, pp. 954–958 ISSN: 10123407, DOI: 10.15001/JOT.2025/V13I6.25.1666
- Sentimental Analysis: A Comparative Study over Different Social Media Platforms**, PICT's International Journal of Engineering and Technology, Vol 2 Issue 2, PIJET 09 ISSN: 2584-2668 June 2025

Technical Clubs

- PICT IEEE Student Branch (PISB)
- PICT CSI (PCSB)
- PICT CyberCell