

Sahil Warade

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

✉ sahilwarade12@gmail.com [in](#) Sahil Warade

🐙 [SahilWarade](#)



Education

Pune Institute of Computer Technology , B.E. in Information Technology (with Honours in Data Science) GPA: 8.01 / 10	2022 – 2026
St Paul School, Nagpur , HSC (Class XII) Percentage: 94%	2019 – 2021

Internship

PICT, Pune – Research Intern <ul style="list-style-type: none">Developed an AI-enabled drowsiness detection system using OpenCV EAR and CNN models for real-time driver monitoringIntegrated a large language model (LLM) conversational module to engage users upon detecting drowsinessContributed to publication of a research paper detailing architecture and evaluation (moved full citation to Publications)	Feb 2025 – April 2025
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Projects

YouTube Sentiment Sarcasm Analyzer Python, Flask, Transformers, Google API <ul style="list-style-type: none">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 summariesDesigned a modular Flask NLP pipeline for multi-task inference	Feb 2024 – April 2024
AI Real-Time Chat App Flask, SocketIO, Redis, PostgreSQL, Docker <ul style="list-style-type: none">Built a scalable AI-powered chat platform handling 50+ concurrent users with real-time SocketIO and Cohere integrationDesigned the AI inference as a Dockerized microservice for modular deployment and scaling	Nov 2023 – Jan 2024
Advancements in Malware Detection Python, Flask, HTML, CSS, JS <ul style="list-style-type: none">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	August 2024 – October 2024

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: 18.15001/JOT.2025/V1316.25.1666
- **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