Vishwatej Mahesh Shende

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💼 Professional Experience

Siemens Industry Software(India) Private Limited, Summer Intern   06/2025 – 07/2025 | pune, India
- Developed a Python script to delete API data using token-based authentication and saved responses in JSON format.
- Built a tool to validate Swagger (OpenAPI) files against OpenAPI 3.0 and Siemens internal standards.
- Wrote and executed test cases for backend APIs, focusing on bug detection, functionality validation, and test coverage.
- Tools: Python, Java, Postman, Insomnia, IntelliJ, pgAdmin, Gradle, JDK 17, GitHub
- Libraries: requests, json, os, webbrowser, unittest, pytz, coverage, logging

🎖 Skills

Programming Languages: — C++, Python, Java, C | **Core CS** — Data Structures, Algorithms, DBMS, OOP |

Machine Learning — YOLOv5, Google Colab, TensorFlow | **Embedded Systems** — Arduino, C Graphics |

API & Backend — REST APIs, Swagger/OpenAPI, Postman, Insomnia, PyTest, Gradle

🎓 Education

VIT PUNE, Bachelor of Technology, Information Technology   09/2023 – 06/2027 | pune, India
- CGPA - 8.98

VSJC and NVHS – High School   2020 – 2023
- **HSC:** 84% (12th) | **SSC:** 95.4% (10th) | **JEE:** 95.08 percentile

📂 Projects

Spit Detection and Alert System   05/2024
- Developed a YOLOv5 model for spit detection using a custom dataset from Roboflow, achieving **85% accuracy**.
- Trained in Google Colab and implemented real-time video processing.
- Integrated a Telegram bot via the Telepot library to send instant alerts when spit is detected. (ASIANCON 2024)

Garbage collecting robot   12/2023
- Designed and built an autonomous garbage collection robot utilizing Arduino to control sensors and motors for efficient roadside waste detection and collection in urban environments.
- Integrated hardware and software to enhance robot performance, significantly reducing human effort in waste management tasks(Published in ICPCSN 2024 IEEE conference)

🎖 Achievements

Expert (1699) on Codeforces 4-Star Rated (1897) on CodeChef

IICPC 2025, All India Rank 618

Runner-Up position in CodeZest 25 (VIT PUNE) out of 70+ teams

3rd place in the PCCOE Problemathon out of 50+ teams

PRADNYA PICT JUNIOR rank 5 out of 350+ teams(coding competition)

Achieved Rank 30 in CodeChef Starters 165 | Rank 150 (Global), Top 20 (India) in CF Round 1034 (Div. 3)

📰 Publications & Patents

Spit Detection and Alert System (ASIANCON 2024, Patented)

Garbage collecting robot (ICPCSN 2024)

Ryouri: The Recipe Recommendation System using Image Recognition (ICSCNA 2024)

Maritime Navigation System using Vector Field Algorithm and DQN (WCAIAA 2025)

</> Leadership & Activities

Technical Head – Math & Programming Club, VIT Pune
Led **200% club growth** by organizing **coding contests, workshops, and mentorship programs.**

YouTube Channel
Uploads **Codeforces contest mirrors and coding videos** to help peers improve problem-solving skills