

# Snehal Darade

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## PROFILE

Enthusiastic computer engineering student pursuing a Bachelor of Technology in Computer Engineering at Vishwakarma Institute of Technology, Pune (2022-2026). Skilled in Java with a strong background in problem-solving and a commitment to continuous learning in research-driven environments.



## EDUCATION

• <b>B.Tech</b>	Vishwakarma Institute of Technology, Pune	cgpa : <b>8.33</b>	<b>2022-26</b>
• <b>HSC</b>	T.C. College, Baramati	Percentage: <b>73.5</b>	<b>2022</b>
• <b>SSC</b>	SPVN Shardanagar, Baramati	Percentage: <b>94.4</b>	<b>2020</b>

## TECHNICAL SKILLS

- **Programming Languages:** Java, C, R, SQL, Python
- **Core Areas:** Data Structures & Algorithms, Operating Systems, OOPS, Machine Learning, Data Science
- **Frontend Development:** HTML, CSS, JavaScript
- **Backend Development:** Java, PHP, Spring Boot, JSP & Servlets, Hibernate, MySQL
- **Data Visualization & Analysis:** PowerBI, R Studio
- **Version Control:** Git, GitHub
- **Design Tools:** Canva, Figma
- **IDEs/Editors:** Vs Code, Eclipse IDE
- **Cloud Platforms:** AWS cloud

## PROJECTS

### Hepatitis C Prediction Using Data Science

- Utilized R language to develop a predictive model for Hepatitis C diagnosis based on patient data.
- Implemented various machine learning algorithms, including svm, knn and random forest.

### Multi-Programming Operating System - Phase 1 & Phase 2

- Designed and implemented a CPU/Machine Simulation and Supervisor Call through Interrupts.
- Implemented Paging, Error Handling, Interrupt Generation and Servicing, and Process Data Structures.

### Smart Route Optimization System

- Developed a Java-based Smart Route Optimization System using Dijkstra's algorithm and Tabu Search to efficiently calculate the shortest distance and minimize travel time for deliveries.

### Vision Tool For The Visually Impaired

- Developed a comprehensive system utilizing ultrasonic sensors, facial recognition, and Raspberry Pi for real-time object detection, navigation, and environmental awareness.
- Implemented a Flutter app to display the user's location and status in real-time.

## RESEARCH

- VisionTool project patented for enhancing accessibility with real-time object detection, GPS tracking, and audio feedback.
- GroundBot project patented for enhancing military reconnaissance with real-time video transmission, IoT and LoRa-based remote control, and immersive VR integration for situational awareness.
- Published a research paper in IJARET.

## ACHIEVEMENTS

- Purple Jallosch Solvathon 2025: Secured 3rd place in the Engineering Domain, awarded by PCMC for innovative problem-solving.
- National Semi-Finalist, Tata Imagination Challenge 2024.
- Best Student Award 2022 by Ideal Science Institute, Baramati.

## CERTIFICATIONS

- Data Structures and Algorithms, Udemy
- Microsoft PowerBI, Udemy
- AWS Cloud Technical Essentials, Coursera

## INTERESTS

Sports, Art, Self-Development