

# PRANAV SHINDE

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## EDUCATION

Vellore Institute of Technology, Chennai	B.Tech. Computer Science Engineering with Specialization in AI and Robotics	8.79 CGPA	2021-2025
Rao Junior College of Science, Mumbai	Class XII	93%	2019-2021
Jankidevi Public School, Mumbai	Class X	90.16%	2018-2019

## SKILLS

- Programming Languages:** Python, Java, JavaScript, React JS, SQL
- Relevant Coursework:** Data Structures & Algorithms, DBMS, Operating Systems, Object Oriented Programming
- Platforms:** Windows, Linux, AWS, Firebase, UI-Path (Automation), ROS
- Tools:** GitHub, Visual Studio, MySQL, Docker, Kubernetes, Google Container Registry, Selenium

## WORK EXPERIENCE

**Vakrangee Limited** May 2024 - July 2024  
*Web Development Intern*

- Developed a secure assessment platform using **HTML, CSS, JavaScript**, and **Firebase**.
- Integrated advanced **anti-cheat mechanisms**, including tab-switch detection, right-click, and copy-paste blocking, to ensure assessment integrity.
- Utilized Firebase for real-time database management and secure storage of assessment results.
- Simulated real-world cybersecurity scenarios to promote practical learning and improve organizational security awareness.

## PROJECTS

**E-Muse: Emotion Driven Music Recommendation System** Mar 2025  
*Team of 2*

- Leveraged the **Xception model** and **Haarcascade Classifier** for real-time facial emotion detection across seven emotion categories.
- Developed a responsive **Streamlit interface** enabling instant emotion scanning and personalized music recommendations..
- Implemented **custom sampling algorithms** to map each emotion to curated playlists, enhancing emotional relevance.
- Integrated direct song links and provided real-time feedback with detected emotions and corresponding suggestions.

**Meal Maven** Aug 2024  
[Link](#)

- Developed a recipe recommendation platform using **HTML, CSS, JavaScript**, and **Edamam API**.
- Built a dynamic search feature with **filters** for meal type and maximum calories, providing personalized recipe suggestions.
- Containerized with **Docker**, pushed images to **GCR**, and deployed on **Kubernetes (GKE)** using multiple pods and a LoadBalancer for scalability and reliability.

**Mop Bot** March 2023  
[Link](#), *Team of 4*

- Collaborated on the development of an Autonomous MopBot robot to automate **floor cleaning** tasks.
- Engineered **path-planning** algorithms and integrated **water-dispensing** mechanisms to navigate efficiently around obstacles and clean designated areas.
- Implemented a manual mode enabling remote control of the robot via a mobile interface for user-directed cleaning in complex or dynamic environments.
- The project was selected for the **Robotics Expo 2023** at VIT Chennai.

## ACHIEVEMENTS & CERTIFICATIONS

- Successfully completed Training and Assessments in C, C++, Java, and SQL at VIT University, Chennai, conducted by Spoken Tutorial Projects, IIT Bombay. Aug 2024
- AWS Certified: Cloud Practitioner** (CLF-C02). Dec 2023
- Streak Maestro Badge** in Coding Ninjas Coding Recap'23. Dec 2023
- Microsoft Azure Administrator Associate** (AZ-104). Nov 2023
- Secured an **S grade** in Database Management System (DBMS) and **A grades** in Design and Analysis of Algorithms (DAA), Computer Networks (CN), Operating Systems (OS) and **Java**. 2022