

## Professional Summary

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- Detail-oriented Computer Science student specializing in Artificial Intelligence and Machine Learning with a strong foundation in web and software development. Proficient in Python, JavaScript, Django, and AWS, with hands-on experience in developing innovative solutions to address real-world challenges. Passionate about creating scalable, efficient applications and delivering impactful results through cutting-edge technologies.

## Technical Skills

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- **Programming Languages:** Python, JavaScript, TypeScript
- **Frameworks and Libraries:** Django, React.js, Next.js, Express.js
- **Tools and Platforms:** AWS, Git, MongoDB, MySQL
- **Front & Backend Technologies:** HTML, CSS, Node.js, Express.js
- **Other Skills:** Data Structures, Algorithms, Git

## Projects

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### Symphonic AI & ML Based Orchestra

Nov 2022 – Feb 2023

- Designed a virtual orchestra application using PoseNet for real-time human body posture detection via webcam.
  - Implemented machine learning models to map user movements to audio files of live-recorded instruments.
  - Delivered an innovative, browser-based solution for interactive music creation.
- Technologies:** TensorFlow.js, PoseNet, JavaScript.

### Crop Doctor

Nov 23 - May 24

#### [Crop Disease Detection using Machine Learning]

- Developed a Progressive Web App (PWA) for automated plant disease identification and prevention methods.
  - Engineered a self-learning system with insights for 200+ plant species, integrated government verification workflows.
  - Achieved an accurate and reliable disease prediction mechanism with a user-friendly design.
- Technologies:** Python, TensorFlow, Flask, PWA

### NGO-Event Management Platform

April 23 – July 23

- Built an integrated payment processing system for NGO event registrations, achieving a 98% transaction success rate.
  - Designed and implemented a MongoDB database for efficient data storage and retrieval.
- Technologies:** MongoDB, React.js, Node.js.

### GUA - Graphical User Authentication

Aug 23 – Sep 23

- Created a secure authentication system based on user-selected images within a graphical interface.
  - Implemented token-based, knowledge-based, and biometric authentication methods.
- Technologies:** Django, Python.

- Developed a full-stack web application for managing student admissions to an immigration school.
- Delivered a feature-rich interface for seamless information access.

**Technologies:** HTML, CSS, JavaScript.

## Experience

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### Front-End Development Intern

Teachnook | Jan 2023 – March 2023

- Collaborated on building responsive web interfaces using React.js and Bootstrap.
- Improved user engagement by implementing modern design principles, achieving a 20% increase in user retention.

## Education

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### B.Tech. in Computer Science (Specialization in AI&ML)

Vellore Institute of Technology, India | 2021–2025

- Relevant Coursework: Machine Learning Algorithms, Database Management Systems, Cloud Computing.

## Achievements

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- Hackerrank 5-Star in C++ and Java
- Developed innovative solutions showcased in academic hackathons and project exhibitions.

## Certifications

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- [January 2024 – April 2024](#)  
Elite Certificate in Privacy and Security in Online Social Media Course, NPTEL.
- [Nov 2023 – March 2024](#)  
Completion and Certification in Java SE11 to Oracle's software development projects, gaining hands-on experience in Java application development and software engineering practices.
- [February 2024 – March 2024](#)  
Facial Expression Recognition with PyTorch, Coursera Project Networks.
- [October 2022 – December 2022](#)  
HTML, CSS, JavaScript for Web Developers, John Hopkins University through Coursera.
- [April 2022 – June 2022](#)  
Mastering in Python, Infosys Springboard.
- [January 2022 – March 2022](#)  
Python 101 for Data Science, Cognitive Class by IBM.

