

# Tattvam Shiva Chaturvedi

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## Summary

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Passionate B.Tech CS student with expertise in web development, robotics, and AI/ML. Tech Lead at RobogeniX and a hackathon winner, I enjoy creating innovative solutions and transforming ideas into reality with code!

## Experience

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### IETE internship (Hybrid)

June 2024 - July 2024

- Enhanced understanding of core concepts in AI, machine learning, and deep learning.
- Applied AI/ML techniques to analyze data and develop solutions for real-world problems.

### RobogeniX (Tech Lead)

2022 - 2024

- Engaged member of XIM's robotics and IoT club, enhancing understanding of robotics principles and applications.
- Built a spy drone and line-following robot from scratch.
- Led the team to victory in the 'Zenous Terminus' competition at XIM University, competing against 100+ participants.

## Education

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### XIM University (B.Tech in CSE)

2021 - 2025

CGPA: 7.20

Coursework: Web Technology, Data Structures and Algorithms, Operating Systems, AI/ML, Database Management Systems, Computer Networks

### Tamil Nadu Board of Secondary Education (12th), Chennai

2020

Percentage: 68%

## Skills

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Python, JavaScript, Java, HTML, CSS, Tailwind CSS, UI/UX, React.js, Node.js, Express.js, MongoDB, MySQL, .NET, Flask, FastAPI, Git

## Projects

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### E-Commerce Site

- Developed a responsive website using Next.js, React.js, and Tailwind CSS, ensuring a seamless and efficient user experience.
- Implemented a robust backend for efficient product handling and user data storage, enabling real-time updates and secure transactions.

### Implementation of Raag recognition techniques

- Achieved up to 97.14% classification accuracy in Raag recognition using advanced algorithms, demonstrating strong analytical and problem-solving skills.
- Conducted comprehensive evaluations of model performance, guiding future research directions in music classification through data analysis and algorithm comparison.

### Notepad

- Developed a user-friendly Java Notepad application with essential features like file handling, text editing, and keyboard shortcuts for efficient text management.
- Implemented a responsive and intuitive interface using Java, enhancing user experience with seamless file operations and customizations.