

# SURAJ VITTHAL TADE

## Computer Engineer

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Portfolio: <https://surajtade.netlify.app>

GitHub: <https://github.com/surajTade>

📍 Pune, India

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"An organized person, ready to learn and improve upon skills."

## WORK EXPERIENCE

### Associate Software Analyst

#### PTC

📅 July 2024 – Present

📍 Pune, India

- **Designed and implemented a diff utility** to streamline the identification and understanding of customer-specific customizations in the OOTB application, facilitating seamless migration from on-premises to cloud environment
- **Developed a bundle load validation utility** to ensure accurate and complete data ingestion from input bundles into the application, enhancing data integrity and reducing processing errors
- **Created an automated thumbnail generation utility** to efficiently generate thumbnails for IEXML documents, improving document accessibility and user experience
- **Tech stack used: Java, XSL, XML**

### SLM Development Intern

#### PTC

📅 July 2023 – June 2024

📍 Pune, India

- Worked on data segmentation and ML application research
- Collaborated with a team to enhance search speed through customer data segmentation optimization

### Webmaster

#### ACM Student Chapter, Pimpri Chinchwad College Of Engineering

📅 August 2022 – June 2023

📍 Pune, India

- Built and maintaining PCCOE ACM student chapter website
- Organized a week-long workshop on modern web development, mentoring over 50 students

## PROJECTS

### Eventory [Oct 2024 – Dec 2024 ]

- A full-stack event listing application allowing users to browse, create, and RSVP to events
- Designed an intuitive UI and implemented user-generated content features
- Leveraged Firebase for real-time database management and authentication
- **Tech Stack:** React, Firebase, Firestore, Tailwind CSS, TypeScript

### Devanagari OCR [Feb 2023 – Jan 2024]

- Developed an Optical Character Recognition (OCR) model to convert handwritten Devanagari text into digital format
- Achieved 85% accuracy on test data
- Improved preprocessing pipeline using OpenCV

## SKILLS

**Programming Languages:** C, C++, Java, Python, JavaScript, TypeScript

**Web Development:** React, Node.js, Express, Tailwind CSS, WebSockets

**Databases:** MySQL, PostgreSQL, MongoDB, Firebase

**Cloud & DevOps:** AWS (EC2, S3, DynamoDB, CDNs, Load Balancers), Docker, Containerization

**Machine Learning:** OpenCV, Transfer Learning, scikit-learn

**API Integration:** REST and WebSocket APIs

**Version Control:** Git, GitHub

**Test automation:** Playwright, Jest, Junit, Mockito

## MOST PROUD OF



**Best Business impact award in TE AI Cup 2023**

Only team from India to win an award



**Coding**

Leetcode: Top 11%, 500+ problems solved

CodeChef: 2 star, highest rating (1516)

HackerRank: 4 star in problem solving, Python and SQL



**Research**

1 Review paper published in Inderscience Journal

## INTERESTS

Problem solving

Games & Anime

Open Source Contribution

Exploring new things

Gym

- **Tech Stack:** Python, OCR, Deep Learning

### **Vision Inspection [Oct 2022 – Apr 2023 ]**

- Developed a computer vision-based ML model to accurately classify defective and non-defective injection molded products
- **Tech Stack:** Python, OpenCV, Machine Learning

### **Anantya 2023 [Mar 2023 ]**

- Led a team of 5 to create the website for *Anantya 2023*, achieving 1,500 sign-ups within a week
- Developed interactive elements using advanced web technologies
- **Tech Stack:** React.js, Three.js, tsParticles, Google Sheets API, GitHub

### **Record Managing System for Parking Lot [Apr 2022 ]**

- Created a Java Swing application for managing parking lot records
- Designed a database schema and implemented it using MySQL
- **Tech Stack:** Java, Swing, MySQL

## **EDUCATION**

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B.Tech in Computer Engineering [8.7 CGPA]

**Pimpri Chinchwad College of Engineering**

📍 Pune, India

Honors in Deep Learning [9 CGPA]

**Pimpri Chinchwad College of Engineering**

📍 Pune, India

## **CERTIFICATIONS**

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- Complete Machine Learning & Data Science Bootcamp, 07/01/22 - 09/30/22

- Machine learning with python - Coursera, 06/01/22 - 07/31/22

- Advance C++ course by IIT Bombay, 07/01/22