

# Jay Zunjarrao

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*Electronics & Telecommunication Engineering Graduate with specialized proficiency in Web Development, Python, and IoT solutions. Award-winning researcher with a proven track record of building user-centric applications using Web Technologies, Flutter, and Computer Vision. Eager to leverage technical expertise in a challenging Software Engineering role.*

## TECHNICAL SKILLS

**Languages:** Python, JavaScript (ES6+), Java, Dart, SQL

**Web Technologies:** React.js, HTML5, CSS3, Tailwind CSS, Bootstrap, jQuery, REST APIs

**Frameworks & Libraries:** Flutter, NumPy, Pandas, OpenCV, Matplotlib, Seaborn

**Tools & Platforms:** Git, GitHub, VS Code, Android Studio, Figma, MySQL Workbench, Vercel

## EDUCATION

### B.E. in Electronics & Telecommunication

Modern Education Society's Wadia College of Engineering, Pune

2021 – 2025

Pune, India

### Higher Secondary Certificate (HSC)

B.K. Birla College (81.67%)

2021

Kalyan, India

## KEY PROJECTS

### Facial Recognition System for Visually Impaired

Python, OpenCV, Raspberry Pi

Final Year Capstone Project

- Engineered a real-time assistive device using **Python** and **OpenCV** to detect known individuals and announce names via **pyttsx3** text-to-speech engine.
- Optimized facial detection algorithms for the **Raspberry Pi 4** environment to ensure low-latency processing.
- Awarded Best Paper** at the Synergy 2025 National Conference for innovation in assistive technology.

### Japanese Kana Flashcard App

Flutter, Dart, Figma

Mobile Application Development

- Developed a cross-platform mobile application for language learning, featuring randomized character generation and Romaji pronunciation toggles.
- Designed a minimalistic, accessible UI in **Figma** and implemented state management in **Flutter** for a seamless user experience.

### Car Catalog Platform

JavaScript, Bootstrap, HTML/CSS

Web Development Project

- Built a dynamic, responsive web application allowing users to filter cars by brand, specifications, and pricing.
- Integrated interactive media features including engine sound playback and dynamic image galleries.

### Solar Powered Grass Cutter

IoT, ESP32, C++

Third Year Project

- Prototyped an eco-friendly automated bot using **ESP32 NodeMCU** with ultrasonic sensors for obstacle avoidance.

## EXPERIENCE

### Artificial Intelligence & Machine Learning Intern

Sep 2023 – Oct 2023

Kodacy

Remote

- Executed end-to-end data pipeline tasks including data preprocessing, feature engineering, and cleaning of complex datasets using **Pandas** and **NumPy**.
- Implemented and evaluated supervised learning models, optimizing parameters to improve prediction accuracy.

## AWARDS & RECOGNITION

- Best Paper Award:** Synergy 2025 (ICT Academy IETE Pune) for advancements in Electronics Technology.
- Paper Publication:** Authored research on "Advancements in Communication and Computing," presented at the 10th National Conference.

## LANGUAGES

**English** (Professional Proficiency), **Hindi** (Fluent), **Marathi** (Native), **Japanese** (Beginner)