

# Aditya Sawant

## B.E. Computer Engineer

📍 Pune, India

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🔗 [hackerrank.com/profile/adisawant454](https://hackerrank.com/profile/adisawant454) • 🔗 [codechef.com/users/aditya\\_sawant](https://codechef.com/users/aditya_sawant)

🔗 [leetcode.com/u/adisawant454/](https://leetcode.com/u/adisawant454/)



## Profile Summary

Motivated Computer Engineering student with hands-on experience in full-stack projects and AWS deployments. Skilled in backend development, DevOps, and modern web technologies through internships and certifications. Embrace failures as learning opportunities and thrive in solving real-world problems. Seeking to apply and grow my skills in a collaborative software development environment.

## Education

<b>BE</b>	<b>Imperial College of Engineering and Research</b> , Computer Engineering	Sept 2022 – May 2026
	<ul style="list-style-type: none"> <li>Cumulative GPA: 8.53 (till Third Year)</li> <li><b>Coursework:</b> Data Structures and Algorithms, Software Engineering, Computer Networks, Database Management Systems, Distributed Systems</li> </ul>	
<b>HSC</b>	<b>Kendriya Vidyalaya No. 1, AFS, Lohegaon, Pune</b>	Aug 2021 – May 2022
	<ul style="list-style-type: none"> <li>Percentage: 86.8%</li> <li><b>Coursework:</b> Physics, Chemistry, Mathematics, Biology</li> </ul>	
<b>SSC</b>	<b>Kendriya Vidyalaya No. 1, AFS, Lohegaon, Pune</b>	Aug 2019 – May 2020
	<ul style="list-style-type: none"> <li>Percentage: 81.4%</li> <li>Board: CBSE</li> </ul>	

## Internships

<b>Automotive Research Association of India</b> , Software Developer Intern	Pune, India May 2025 – Nov 2025
<ul style="list-style-type: none"> <li>Automated data consolidation using a custom Python script to efficiently process and merge multiple Excel files, generating unified, clean datasets for project workflows.</li> <li>Automated data formatting and validation tasks using custom scripts, ensuring high data accuracy and overall operational efficiency.</li> <li>Engineered a robust, cross-platform desktop application using Qt C++ for the framework and responsive user interface design.</li> <li>Implemented drag-and-drop functionality within the application to streamline the user workflow for inputting image files and managing batch processing easily.</li> <li>Integrated the Python C API within the Qt application to enable specialized bulk and curated Image Embossing functionalities, demonstrating complex cross-language development skills.</li> <li>Developed and integrated a custom License Manager within the application to manage software distribution and enforce usage restrictions.</li> </ul>	

### **Alif Media House**, Website Development and Designing Intern

Pune, India Jan 2025 – Feb 2025

- Developed responsive web designs for real-world client projects with an emphasis on modern UI/UX design.
- Collaborated with cross-functional teams to deliver scalable web solutions.

### **Techplement**, Cloud (AWS) Intern

Chatrapati Sambhaji Nagar, India Sep 2024 – Oct 2024

- Built and deployed scalable backend applications using AWS Elastic Beanstalk, EC2, and RDS, leveraging MySQL for data management.
- Optimized distributed system performance by configuring auto-scaling on EC2 instances and monitoring with CloudWatch.
- Designed reusable services with clean code principles, enhancing application reliability and extensibility.
- Conducted performance tuning and impact analysis to improve system efficiency in large-scale environments.

## **Projects**

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### **E-Book Marketplace**

- Engineered a highly scalable E-Book Marketplace utilizing a flexible full-stack architecture built on Node.js, Express.js, and React.js.
- Implemented a polyglot database architecture by integrating PostgreSQL, MySQL, and MongoDB to ensure reliability and optimize data management within a distributed environment.
- Designed reusable and maintainable RESTful APIs to manage core e-commerce functionalities, including user authentication, secure file uploads, and book transactions.
- Designed reusable and maintainable RESTful APIs to manage core e-commerce functionalities, including user authentication, secure file uploads, and book transactions.
- Developed a robust state management layer on the front-end using React-Redux and @reduxjs/toolkit to efficiently handle complex application logic.
- Built a modern, responsive user interface leveraging Tailwind CSS and React Router for seamless navigation and an optimal cross-device experience.
- Demonstrated proficiency in full-stack development by delivering a complete, high-quality application with a strong emphasis on clean code architecture and system extensibility.

[github.com/adisawant2005/My-SecondYear-Project](https://github.com/adisawant2005/My-SecondYear-Project)

### **Multilingual Sentiment Analysis**

- Engineered an LLM-Powered Backend using Node.js/Express and the Google GenAI SDK, specifically leveraging the Gemini 2.5 Flash model across all analysis, summarization, and translation endpoints.
- Implemented Structured Data Extraction using Gemini's JSON Schema configuration to strictly enforce output format, guaranteeing reliable and predictable data return for front-end consumption (e.g., multiSentimentSchema).
- Developed Advanced Prompt Engineering techniques, including few-shot examples and role-based personas (e.g., "proud Indian diplomat"), to ensure nuanced and high-quality sentiment classification on a 5-point scale (1-5).
- Optimized Data Handling by implementing custom CSV streaming/sampling logic and token estimation/size limits (e.g., estimateTokens, handleError) to prevent context window overruns and manage large datasets efficiently.
- Integrated Multilingual Capability through a dedicated translateText utility and endpoint logic, enabling the dynamic translation of analysis results (summaries and trends) into any specified language.

[github.com/adisawant2005/Multilingual\\_Sentiment\\_Analysis.git](https://github.com/adisawant2005/Multilingual_Sentiment_Analysis.git)

## Certificates

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<b>Jenkins for Beginners</b> <ul style="list-style-type: none"><li>• KodeKloud</li></ul>	April 2025
<b>Golang</b> <ul style="list-style-type: none"><li>• KodeKloud</li></ul>	March 2025
<b>Complete Linux Course</b> <ul style="list-style-type: none"><li>• Udemy</li></ul>	July 2024
<b>React and Redux Course</b> <ul style="list-style-type: none"><li>• Complete Coding by Prashant Sir</li></ul>	May 2024
<b>Shell Scripts for Beginners</b> <ul style="list-style-type: none"><li>• KodeKloud</li></ul>	March 2025
<b>Introduction to Artificial Intelligence</b> <ul style="list-style-type: none"><li>• Infosys Springboard</li></ul>	September 2024
<b>Cloud Computing 101</b> <ul style="list-style-type: none"><li>• AWS</li></ul>	August 2024

## Skills

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

**Databases:** MySQL, MongoDB, PostgreSQL

**Cloud and DevOps:** AWS (Elastic Beanstalk, EC2, RDS, S3, Lambda, CloudWatch), Jenkins

**Web Development:** Node.js, Express.js, React.js, Tailwind CSS, HTML/CSS, React Router DOM, Redux (@reduxjs/toolkit), Axios, Multer

**Soft Skills:** Excellent Verbal and Written Communication, Problem-Solving for Real-World Digital Challenges, Analytical Thinking, Strong Work Ethic and Eagerness to Learn, Teamwork, Clean and Maintainable Code Practices (focusing on scalability, performance, and best standards)

**Other Technologies:** OpenCV, Firebase, Git, GitHub, Shell Scripting, LaTeX

## Declaration

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I hereby declare that the information provided above is true and correct to the best of my knowledge and belief.

**Place:** Pune

**Date:** November 25, 2025