

Tanay Samir Vakharia

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Summary

Computer Science Engineering student skilled in full-stack development, AI/ML, and software engineering. Experienced in developing practical systems, automation tools, and data-driven solutions.

Education

Bachelor of Technology (B.Tech) in Computer Science Engineering

Indus University, Ahmedabad (2022–2026)

CGPA: 8.21/10

GPA: 3.3/4

Extracurricular & Leadership Experience

iSAC (Indus Student Activity Cell) — Technical Lead (Jul 2024 – Aug 2025)

- Coordinated university-wide events with academic and administrative teams.
- Managed logistics, planning, and resource allocation.
- Ensured smooth execution by enhancing communication workflows.
- Managed various types of data in ISAC and contributed to improving data organization and processes.

Projects

Major Projects

Sr. No.	Project Title	Description	Tools / Technologies
1	Career Guidance System (ongoing)	NLP & ML model that predicts suitable career paths based on user inputs and assessment data.	Python, ML
2	Edulytics (ongoing)	AI-based smart scheduler and attendance system for institutions and student study planning.	Full Stack
3	AI Lead Generator	Automated web-scraping and analytics pipeline with dashboard visualization.	Apify, Playwright, FastAPI, Next.js
4	Smart AMC System	NLP-powered concept for automatically classifying and routing municipal complaints.	Node.js, Flutter
5	University Chatbot	NLP chatbot answering institutional FAQs using a Python NN pipeline and JSON data.	Python, NLP
6	HRMS System	Skill-based task assignment system with basic HR dashboard functionalities.	Python / Web Stack

Minor Projects

Sr. No.	Project Title	Description	Tools / Technologies
1	E-Commerce Shoe ordering Website	MERN-based platform enabling authentication, product browsing, and seamless shoe ordering.	MongoDB, Express, React, Node.js
2	Light-Tracking Solar Panel	Dual-servo solar tracker maximizing sunlight capture using sensor feedback.	Arduino, Sensors
3	Employee Management System	Java application automating attendance, payroll, and basic HR operations.	Java, MySQL
4	Online Exam Portal	Android MCQ exam system with Firebase login, storage, and real-time syncing.	Java, Firebase
5	New User Telecom Prediction	ML solution predicting onboarding user behavior for telecom insights.	Python, ML, ML algorithms
6	Obstacle-Avoiding Robot	Autonomous robot using ultrasonic sensing for real-time obstacle detection.	Arduino, Sensors

Technical Skills

Category	Skills
Programming Languages	Python, C, C++, Java
Web Technologies	JavaScript, HTML5, CSS, React, Next.js, Node.js, Express.js
Backend & Databases	FastAPI, MongoDB, SQL, Supabase
Embedded & IoT	Arduino Uno, Sensors, Servo/DC Motors, Motor Drivers, Photodetectors
AI/ML	Supervised Learning, Unsupervised Learning, Model Evaluation, ML, NLP, AWS ML Modules
Automation	Playwright, Apify
Cloud Platforms	AWS Cloud, Microsoft Azure
Design & Visualization	Figma, Adobe XD, Wireframing, Prototyping, UI/UX Principles
Business & Analysis	Requirements Gathering, Process Modeling, Agile, Reporting
Microprocessor Design	MIPS Microprocessor (Xilinx ISE), Arduino
Tools	CMD Scripting, Microsoft Office, VS Code, Docker, Git, GitHub, Linux

Languages

- Gujarati: Native
- Hindi: Intermediate (B1)
- English: Upper-Intermediate (B2)

Internship Experience

Academor

Web Development Intern

Feb 2023 – Mar 2023

- Developed responsive UI components using HTML, CSS, JavaScript, and React for ongoing web modules.
- Assisted in design workflows and contributed to iterative feature enhancements and UI improvements.

Prodigy InfoTech

Web Development Intern

Jun 2024 – Jun 2024

- Built reusable JavaScript components to support scalable and maintainable web interfaces.
- Fixed UI/UX layout issues and improved visual consistency across multiple pages.

Brainy Beam

AI/ML Intern

Dec 2024 – Jan 2025

- Trained and evaluated basic ML models across various datasets to understand practical applications of algorithms.
- Performed data preprocessing and feature engineering to improve model performance and reliability.

Milan Patel's Web Studio

MERN Stack Developer

Jan 2025 – Jul 2025

- Developed full-stack MERN features for client projects, including APIs, dashboards, and interactive frontends.
- Optimized application performance and improved user experience through clean UI components and efficient backend logic.

Multitrade Softech Pvt. Ltd.

Software Intern

Jul 2025 – Jan 2026

- Built C++ desktop application features using Microsoft Foundation Classes (MFC) and solved various bugs.
- Assisted seniors in enhancing the eKYC workflow using JavaScript, HTML, and C++, improving usability, validation flow, and overall system reliability.

Certificates

- AWS Cloud Computing
- AWS Machine Learning
- AWS NLP
- Royals Softech – Coding Bootcamp
- Aecademour – Web Development Course

Research Work

- CareerGPT – AI-driven Career Guidance System (Published, Aug 2025): ML-based system for career recommendations.