

# ANVI PANCHAL

AI & Full Stack Software Engineer

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## PROFESSIONAL SUMMARY

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Computer Science undergraduate specializing in **UI/UX design, web application development, and AI driven workflow automation**. National Winner of Smart India Hackathon 2025 and SSIP Vikas Saptah Finalist, with experience building intuitive user interfaces integrated with scalable backend systems. Microsoft PowerApps intern contributing to full-stack solutions, and **Oracle Cloud Infrastructure 2025 AI Foundations Certified** with a strong foundation in system design and applied AI.

## WORK EXPERIENCE

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**AI & Backend Engineering Intern** | Internship Jun 2025 - Jul 2025  
*The Line Tech (UK)* Ahmedabad

- Contributed to backend development using Django, focusing on clean architecture and maintainable code practices.
- Assisted in integrating AI-driven automation workflows to streamline internal processes.
- Collaborated with the development team to enhance system logic, optimize performance, and improve scalability.

**Technologies / Skills Used** : Python, n8n, Bubble

**Microsoft Power Apps Intern** | Internship Jul 2024 - Aug 2024  
*Lalit Rakesh & Associates* Ahmedabad

- Built internal task management systems using Microsoft PowerApps integrated with Dataverse and SharePoint.
- Designed structured data models and automated workflows to improve operational efficiency.
- Developed low-code enterprise solutions aligned with real business requirements and process optimization.

**Technologies / Skills Used** : Power Apps, Power Automate, Share Point, Database Design , Dataverse

**Software Development Intern** | Internship May 2024 - Jun 2024  
*Hindustan Platinum Pvt. Ltd.* Ahmedabad

- Developed a Python-based web application using Flask to monitor digital weighing machines by pinging device specific IP addresses within the organization's local network.
- Implemented socket-based communication to establish real-time connectivity between the web interface and hardware systems for status tracking.
- Deployed the application on the company's internal server, enabling centralized monitoring and efficient troubleshooting.

**Technologies / Skills Used** : Python, Flask, Networking, Socket, PuTTY

## EDUCATION

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**GLS University** Jun 2023 - Present  
*B.Tech Computer Science and Engineering* CGPA : 7.92

## PROJECTS

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**Coast Scan (SIH 2025 Winner)** | 📁 Lab Report Sep 2025 - Dec 2025  
*Designer & Web, App Developer*

- Engineered a **hardware software integrated sediment grain analysis system** using **image processing techniques** (thresholding, contour detection, morphological operations) to classify sand particles.
- Experimented with **CNN-based models** for grain pattern recognition and validated results against traditional sieve analysis methods.
- Achieved **98%+ accuracy** across **5+ sediment samples**, verified through laboratory-tested sediment reports (Porbandar Coast sample).
- Reduced analysis time from **multiple days of manual processing to automated report generation in seconds**, significantly minimizing manual effort.

**Technologies / Tools Used** : Python, IoT, Django, AWS, Image Processing, Convolutional Neural Network

## PROJECTS

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### Urja Setu (SSIP Hackathon Finalist) | Github

Sep 2025 - Oct 2025

UI UX & Web, App Developer

- Built a **decoupled Django REST platform** with separate citizen and technician portals for streamlined electrical hazard reporting.
- Implemented a **CNN based object detection pipeline (YOLOv8)** using a **custom dataset** to classify assets such as poles, transformers, and electrical faults from uploaded images.
- Designed an **automated hazard prioritization system**, enabling **real-time ticket categorization** and reducing manual inspection effort.

*Technologies / Tools Used : Python, Image Processing, YOLOv8, JavaScript*

### Commently (AI Chrome Extension) | Github

Jun 2025 - Jul 2025

Full Stack Developer

- Developed a **Chrome Extension** that generates **context-aware LinkedIn comments** using **Google Gemini** via an **n8n AI agent workflow**.
- Implemented **DOM manipulation** and **MutationObserver** to dynamically inject UI components into LinkedIn's feed.
- Designed a **memory buffer logic** to prevent repetitive outputs and maintain conversational consistency, combining **frontend scripting** with **backend AI orchestration**.

*Technologies / Tools Used : n8n, JavaScript, Google AI Studio*

## SKILLS

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**Programming Languages :** Python, JavaScript, SQL, C++

**Frameworks & Libraries :** Flask, REST APIs, Microservices, React, Bubble

**Tools & Platforms :** GitHub, Git, Docker, n8n, AWS, Microsoft Power Apps & Power Platform

**Databases :** PostgreSQL, MySQL, SQLite

**Soft Skills :** Communication, Teamwork, Problem Solving

**Languages :** English, Hindi, Gujarati

## CERTIFICATIONS

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### Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate

Nov 2025 - Nov 2027

Oracle

Certification <https://catalog-education.oracle.com/pls/certview/sharebadge?>

Url : [id=BA983D960F2746105EBB578F3C04E527DCC043A1C5A6528DF926D3D56E429D91](https://catalog-education.oracle.com/pls/certview/sharebadge?id=BA983D960F2746105EBB578F3C04E527DCC043A1C5A6528DF926D3D56E429D91)

## AWARDS & ACHIEVEMENTS

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### Smart India Hackathon Winner

Dec 2025

All India Council for Technical Education (AICTE)

- Secured National Winner position in the Hardware Edition of Smart India Hackathon 2025 among top teams across India.
- Led development of *Coast Scan*, a hardware-software integrated system for real-world sand grain size mapping and validation.

### Finalist SSIP Vikas Saptah Hackathon

Oct 2025

Student Startup Policy Gujarat (SSIP)

Selected as a Top 50 Finalist out of 4000+ participating teams statewide.

### HackHound 3.0 (SRM Institute of Science & Technology)

Mar 2025

S.R.M University

Selected to participate in a national level hackathon following competitive screening among numerous team entries.

## **AWARDS & ACHIEVEMENTS**

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### **Foundation Course on Green Skills & Artificial Intelligence**

Jul 2025

*Edunet Foundation*

Recognized among top-performing teams during project showcase and solution presentation.

### **Indus Hackathon 2025**

Jan 2025

*Indus University*

Participated in competitive hackathon focused on real-world problem-solving and applied technology innovation.

### **Smart India Hackathon 2024 – Internal Winner**

Sep 2024

*GLS University*

Secured 1st position at the institutional level, qualifying as top-performing team.