

Dhwani Vyas

📞 +91 7621092186 | 🌐 Gandhinagar, Gujarat, India | 📩 dhwani.vyas05@gmail.com | 💬 LinkedIn | 🛡 GitHub | 🌐 Website

EDUCATION

Pandit Deendayal Energy University <i>Gandhinagar, Gujarat</i>	July 2023 – Present
<i>B.Tech in Computer Science Engineering - CGPA: 9.63</i>	

EXPERIENCE

BakeOTopia <i>Freelance Full-Stack Developer</i>	Aug 2025 – Sept 2025
<ul style="list-style-type: none">Built a full-stack bakery web application handling 100+ product records with a structured frontend-backend architectureDesigned and implemented Supabase-backed data models and APIs to manage product data, categories, and dynamic contentImplemented CRUD operations for product listings, enabling efficient data updates without frontend redeploymentOptimized layouts and state handling for desktop and mobile responsiveness across multiple screen sizesDeployed the application on Vercel, achieving sub-2 second page load times and reliable production buildsStructured the codebase to support future extensions such as authentication, order flow, and admin dashboardsTech Stack: React, TypeScript, Vite, Tailwind CSS, shadcn-ui, Supabase, VercelLinks: Visit Site ↗ Source Code ↗	
Rural Education Intern <i>Astittva Welfare Foundation</i>	May 2024 – Jul 2024

Rural Education Intern <i>Astittva Welfare Foundation</i>	May 2024 – Jul 2024
<ul style="list-style-type: none">Introduced foundational computer science concepts and digital literacy to students in a newly digitized government school environmentTrained 200+ first-time computer users on typing, MS Office, file management, and safe internet usage.Designed technology-driven, interactive learning modules to improve logical thinking, problem-solving ability, and early STEM readinessAssisted in setting up and optimizing basic computer lab usage, ensuring smooth adoption of new digital infrastructure	

PROJECTS

PlantSense AI <i>PyTorch, EfficientNet-B0, FastAPI, React, Render, Vercel</i>	Jan 2026
<ul style="list-style-type: none">Designed and developed an end-to-end AI-powered plant identification system using PyTorch and EfficientNet-B0 to classify plant species from user-uploaded imagesTrained and fine-tuned a deep learning model on a curated dataset of 2,400+ real-world plant images across 13 species, leveraging transfer learning and data augmentation techniquesBuilt a FastAPI-based inference service to serve the trained model and deliver real-time predictions (<1s inference time after cold start) with confidence scoresImplemented confidence-based prediction filtering to reject low-confidence outputs, improving reliability and reducing incorrect classifications on ambiguous inputsDeveloped a responsive React frontend enabling image upload, API integration, and structured visualization of plant identification results and care recommendationsDeployed a decoupled frontend-backend architecture using Render (backend) and Vercel (frontend), addressing CORS configuration, environment-based API routing, and ML model cold-start latencyLinks: Live Demo ↗ Backend Code ↗ Frontend Code ↗	

ProTract <i>Next.js, Web3.js, Python, Scikit-learn (SVM)</i>	March 2025
<ul style="list-style-type: none">Developed AI-Powered Fraud Prevention System, a FinTech prototype to analyze and classify Ethereum transactions using machine learningProcessed a dataset of 500+ public on-chain transactions collected via Web3.jsEngineered a Support Vector Machine (SVM) model to distinguish suspicious and non-suspicious transactionsPerformed feature engineering on key attributes such as transaction value, gas usage, and transaction frequency	

- Integrated ML outputs into a Next.js frontend to display transaction details and classification results
- Created at Breach'25, Gujarat's Biggest Fintech Hackathon
- **Links:** [Live Demo ↗](#) [Source Code ↗](#)

PaperSimplify |*Next.js, TypeScript, OpenAI API, PDF Parsing, Tailwind CSS*

Jan 2026

- Developed an **AI-assisted web application** to simplify complex research papers into structured, easy-to-understand explanations
- Implemented optimized backend API routes for PDF parsing and AI inference, achieving **average response times of 3–5 seconds**
- Streamlined preprocessing and prompt pipelines to support **10–15 page PDFs** with minimal data generation latency
- Designed a responsive frontend delivering **near-instant UI feedback** after document upload
- Focused on **performance-aware system design**, balancing speed, accuracy, and cost efficiency
- **Links:** [Live Demo ↗](#) [Source Code ↗](#)

SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, C/C++ SQL, Typescript.

Computer Science: Data Structures, Analysis and Design of Algorithms, Object Oriented Programming, Operating Systems, Computer Networking, Database Management Systems.

Web Technologies: React.js, Next.js, Flask, Node.js, Express.js, TailwindCSS, Shadcn UI, RESTful APIs, SQL, MongoDB.

AI/ML tools: Tensorflow, PyTorch, Sk-learn, Pandas, Numpy, Prompt Engineering, LLM/LMM fine tuning.

Networking: TCP/UDP Sockets, Congestion Control, Secure Data Transfer.

Tools: Git & GitHub, Docker, Firebase, Supabase, Postman, Vercel, Resend, VScode, Cursor.

CERTIFICATIONS

IBM 4-weeks Internship

AI & Cloud |Edunet Foundation

Aug 2025

[Credentials ↗](#)

Google Data Analytics

Coursera

July 2024

[Credentials ↗](#)

Artificial Intelligence Fundamentals

IBM SkillsBuild

June 2024

[Credentials ↗](#)

Google AI Essentials

Coursera

July 2024

[Credentials ↗](#)

Cisco Networking Basics

Cisco Networking Academy

Aug 2025

[Credentials ↗](#)

Understanding Incubation and Entrepreneurship

NPTEL

Oct 2025

[Credentials ↗](#)

ACHIEVEMENTS

- **1st Runner-up – Breach'25 Hackathon**, a 48 hour hackathon at PDEU, Gandhinagar.
- Conducted a **1.5 hours workshop on Python Libraries**, organized by GeeksForGeeks at **PDEU, Gandhinagar**.
- Qualified in **Top 50** teams of **Level Supermind Hackathon'25** at **Lower Parel, Mumbai**.
- **LeetCode:** 300+ problems solved across arrays, trees, graphs, and DP.