

Dhwani Vyas

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EDUCATION

Pandit Deendayal Energy University | *Gandhinagar, Gujarat*
B.Tech in Computer Science Engineering - CGPA: 9.63

July 2023 – Present

EXPERIENCE

BakeOTopia | *Freelance Full-Stack Developer*

Aug 2025 – Sept 2025

- Built a **full-stack bakery web application** handling **100+ product records** with a structured frontend-backend architecture
- Designed and implemented **Supabase-backed data models and APIs** to manage product data, categories, and dynamic content
- Implemented **CRUD operations** for product listings, enabling efficient data updates without frontend redeployment
- Optimized layouts and state handling for desktop and mobile responsiveness across **multiple screen sizes**
- Deployed the application on Vercel, achieving **sub-2 second page load times** and reliable production builds
- Structured the codebase to support **future extensions** such as authentication, order flow, and admin dashboards
- **Tech Stack:** React, TypeScript, Vite, Tailwind CSS, shaden-ui, Supabase, Vercel
- **Links:** [Visit Site](#) [Source Code](#)

Rural Education Intern | *Astittva Welfare Foundation*

May 2024 – Jul 2024

- Introduced foundational **computer science concepts** and digital literacy to students in a newly digitized government school environment
- Trained **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 readiness
- Assisted in setting up and optimizing basic **computer lab usage**, ensuring smooth adoption of new digital infrastructure

PROJECTS

PlantSense AI | *PyTorch, EfficientNet-B0, FastAPI, React, Render, Vercel*

Jan 2026

- Designed and developed an **end-to-end AI-powered plant identification system** using **PyTorch** and **EfficientNet-B0** to classify plant species from user-uploaded images
- Trained 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 techniques
- Built a **FastAPI-based inference service** to serve the trained model and deliver **real-time predictions (<1s inference time after cold start)** with confidence scores
- Implemented **confidence-based prediction filtering** to reject low-confidence outputs, improving reliability and reducing incorrect classifications on ambiguous inputs
- Developed a responsive **React frontend** enabling image upload, API integration, and structured visualization of plant identification results and care recommendations
- Deployed a **decoupled frontend-backend architecture** using **Render (backend)** and **Vercel (frontend)**, addressing CORS configuration, environment-based API routing, and ML model cold-start latency
- **Links:** [Live Demo](#) [Backend Code](#) [Frontend Code](#)

ProTract | *Next.js, Web3.js, Python, Scikit-learn (SVM)*

March 2025

- Developed AI-Powered Fraud Prevention System, a **FinTech prototype** to analyze and classify **Ethereum transactions** using machine learning
- Processed a dataset of **500+ public on-chain transactions** collected via Web3.js
- Engineered a **Support Vector Machine (SVM)** model to distinguish suspicious and non-suspicious transactions
- Performed **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, Shaden 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.