

Dhwani Vyas

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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>	Oct 2025 – Dec 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 ↗	

PROJECTS

PlantSense AI <i>PyTorch, EfficientNet-B0, FastAPI, React, Render, Vercel</i>	Jan 2026
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- 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](#) ↗

StockPred <i>FastAPI, XGBoost, PostgreSQL, SQLAlchemy, Next.js, Yahoo Finance API</i>	Jan 2026
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- Developed an end-to-end **ML-powered stock prediction platform** that generates directional trading signals using historical and live market data.
- Trained an **XGBoost-based classification model** on multi-asset equity data (100+ stocks, 2018–present) to predict **5-day price direction**.
- Performed extensive **feature engineering** including momentum returns, moving averages, volatility metrics, and lag features
- Implemented **risk-aware backtesting** with confidence filtering and volatility-adjusted position sizing, achieving **33%+ cumulative returns** with controlled drawdowns.
- Built a scalable **FastAPI backend** supporting real-time single-stock and batch predictions using live Yahoo Finance data ingestion.
- Integrated **PostgreSQL database** for user management, watchlists, and prediction logs with secure authentication.
- Links:** [Live Demo](#) ↗ [Source Code](#) ↗

- 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](#) ↗

SKILLS

Programming Languages: Java, Python, C++, SQL, HTML, CSS, JavaScript, 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, PostgreSQL, Prisma

CERTIFICATIONS

IBM 4-weeks Internship	<i>AI & Cloud Edunet Foundation</i>	<i>Aug 2025</i>
Google Data Analytics	<i>Coursera</i>	<i>Credentials</i> ↗ <i>July 2024</i>
Artificial Intelligence Fundamentals	<i>IBM SkillsBuild</i>	<i>Credentials</i> ↗ <i>June 2024</i>
Google AI Essentials	<i>Coursera</i>	<i>Credentials</i> ↗ <i>July 2024</i>
Cisco Networking Basics	<i>Cisco Networking Academy</i>	<i>Credentials</i> ↗ <i>Aug 2025</i>
Understanding Incubation and Entrepreneurship	<i>NPTEL</i>	<i>Credentials</i> ↗ <i>Oct 2025</i>

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.