

Dhruvinkumar Patel

Pune

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EDUCATION

MIT World Peace University

B.Tech Computer Science(AI and Data Science); CGPA: 8.36/10

Pune, Maharashtra

August 2023 – Present

Sahjanand School of Achiever

HSC: 72% JEE Main: 91.41%

Gandhinagar, Gujarat

2022-23

Caravan High School

SSC: 92.8%

Gandhinagar, Gujarat

2020-21

EXPERIENCE

Alchemyte Data Solutions LLP

On-Site — June 2025 to July 2025 — [View Project](#)

AI Engineer Intern

- **RAG-based AI System:** Worked on building and optimizing a Retrieval-Augmented Generation (RAG) pipeline using vector databases and LLMs.
- **LLM Integration:** Integrated pre-trained large language models into enterprise-level search and response systems.

Ahir Infotech

Remote — April 2025 to June 2025 — [View Certificate](#)

AI/ML Engineer Intern

- **Healthcare Chatbot Model Development:** Developed an AI model from scratch to predict diseases based on user-inputted symptoms using the provided dataset.
- **Model Fine-Tuning:** Fine-tuned pre-trained models using symptom-disease datasets to increase prediction accuracy.

SKILLS

Languages:: Python, C, C++, JavaScript, HTML, CSS, SQL

Frameworks/Libraries:: TensorFlow, PyTorch, scikit-learn, Hugging Face Transformers, Pandas, NumPy, Seaborn, Matplotlib, OpenCV, Flask, Node.js, Express.js

AI/ML Technologies:: RAG (Retrieval-Augmented Generation), LLM Fine-Tuning, NLP, Computer Vision, Symptom-to-Disease Prediction, Chatbot Development, Deep Learning, Image Segmentation (SAM), Object Detection (YOLOv3), Multi-Agent AI Systems

Tools & Platforms:: Git, GitHub, MySQL, Google Colab, Jupyter Notebook, Anaconda, Postman, Tableau, Three.js

Soft Skills:: Problem Solving, Critical Thinking, Team Collaboration, Leadership, Research-Driven Development

PROJECTS

Synexor AI Suite – Multi-Agent Tools

Sept 2025-Present

- Engineered a **multi-agent system** with **Python (Flask, Socket.IO)** and **React**, powered by **Google Gemini**.
- Agents collaboratively generate runnable **Python/full-stack apps**, with real-time logs, auto-packaged ZIPs, and one-click execution.
- Extended suite with **SmartSlides** (AI → PDF slides), **Blog Generator** (YouTube/Interview → blog), and **DataWash** (data upload, analysis, cleaning).
- Added **ExamForge: Story Mode** generates simplified topic documents with examples, **Learning Mode** offers adaptive Q&A (advancing on correct answers), and **Quiz Generator** builds practice assessments.

Deepfake Detection System

Jan 2025

[View Project](#)

- Developed using **Python, Flask, HTML, CSS, JavaScript, Three.js**, and **TensorFlow**.
- Fine-tuned **MobileNetV2** on a dataset of **190,000 images** for **deepfake detection**, achieving high accuracy in identifying manipulated media.
- Enabled **3D anomaly visualization** with **point cloud rendering**, highlighting deepfake anomalies (e.g., eye misalignment, mouth asymmetry, color inconsistencies) using cyan and red dots.

Data Analytics Dashboard in Tableau:

Sept 2024

- Designed an interactive data analytics dashboard to visualize customer purchase patterns.
- Focused on key metrics such as purchase frequency, product preferences, and seasonal trends.
- Integrated various data sources and created tailored visualizations for actionable insights.

AI4Image - AI-Powered Object Detection & Image Editing Tool

Jan 2025

[View Project](#)

- Developed a **web application** enabling object detection, segmentation, and image editing.
- Integrated **YOLOv3** for **object detection** and Meta's **Segment Anything Model (SAM)** for precise image segmentation.
- Implemented **Flask-based backend** to process images and generate AI-powered outputs.
- Designed and optimized **image extraction** functionalities with OpenCV and deep learning models.

Vehicle Rental System (Full-Stack)

Sept 2024

[View Project](#)

- Built using **Node.js, Express, HTML, CSS, MySQL**, and **JavaScript**.
- Implemented **secure user authentication**, **vehicle selection**, and **role-based access control** for **Customer** and **Driver** roles.
- Enabled **Customers** to book rides and **Drivers** to view and manage assigned customer ride requests easily.

AI-Powered Personal Assistant

Jan 2025

[View Project](#)

- Developed a **Python-based AI personal assistant** capable of automating complex tasks without mouse interaction.
- Integrated **WhatsApp chat analysis** for intelligent response suggestions and real-time messaging automation. It can also do basic data cleaning.
- Implemented functionalities like **task management**, **news updates**, **web search**, **app launching**, and **screenshot capture**.

LEADERSHIP & EXTRACURRICULAR

- Volunteered in RIDE'23 at MIT WPU
- Participant in AI/ML for Geodata Analysis course by ISRO [\(View Certificate\)](#)
- Attended IIT Guwahati's Winter Consulting 2024 [\(View Certificate\)](#)