

DHRUV PATEL

AI Engineer

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Portfolio | GitHub | LinkedIn

SUMMARY

Curious-minded AI engineer with a strong foundation in both academic research and hands-on development, passionate about building intelligent systems that solve real-world problems. Known for translating complex data into practical solutions, from conversational AI to business automation tools. Driven by a deep interest in human-computer interaction, ethical AI, and continuously exploring ways to blend machine learning with meaningful user experiences. Always learning, always shipping.

EDUCATION

National Forensic Sciences University

Ponda, Goa

Master's in Artificial Intelligence and Data Science (Specialization in Cyber Security) Master of Technology

July 2024 - July 2026

GPA: 3.8 / 4

LDRP Institute of Technology and Research

Gandhinagar, Gujarat

Bachelor's in Information Technology Bachelor of Engineering

September 2020 - May 2024

CGPA: 8.25 / 10

EXPERIENCE

TCAAI, IIT Bombay | Intern

Bombay | May 2025 - Present

- Working with the Cybersecurity team on Project Vajra at IIT Bombay, focused on endpoint detection and response (EDR).
- Remaking the existing C++ backend to address OpenSSL dependency and build stability issues.
- Enhancing system resilience by refactoring components for secure, scalable performance in high-throughput environments.
- Developing a malware-specific anti-evasion playground to emulate realistic VM environments and detect evasive behavior.
- Assisting in backend improvements using C++ and Python to support real-time telemetry ingestion and threat detection.
- Actively involved in debugging, optimization, and team code reviews to ensure robust, production-grade system design.

Krishu AI | AI Intern

Gurugram, Haryana | Jan 2025 - Jun 2025

- Built and trained AI models to automate key steps in the loan processing workflow, including document verification and risk assessment, which helped improve the overall accuracy and speed of loan evaluations.
- Worked with machine learning and natural language processing (NLP) to enhance user interactions and support smarter decision-making within the lending process.
- Designed and implemented chatbots and virtual assistants to support borrower communication, making it easier for users to get answers, submit documents, and navigate the loan application process more smoothly.
- Contributed to the development of automation workflows, helping integrate AI-driven tools into existing systems and streamline operations across the platform.

Virtual Reality Systems | Software Development Intern

Gandhinagar | Jan 2024 - July 2024

- Built AI-powered solutions to process and summarize complex datasets, improving how teams retrieve and understand key information using modern machine learning techniques.
- Led the integration of AI capabilities into the Odoo ERP platform as a third-party app, automating repetitive workflows and supporting smoother system performance.
- Partnered with cross-functional teams to design scalable AI models tailored to business needs, helping unlock insights and improve day-to-day operational efficiency.
- Streamlined machine learning pipelines and introduced AI-driven automation tools that made business processes more efficient and supported better decision-making across teams.

SKILLS

Programming Languages:	C, C++, Java, Python, R, HTML, CSS, JavaScript
Libraries/Frameworks:	TensorFlow, LangChain, PyTorch, OpenAI API, Hugging Face Transformers, FastAPI, Numpy, Pandas, Scikit-Learn, Pyplot, Matplotlib, Flask, Open-CV, Keras
Tools / Platforms:	Git, Linux, Docker, Kubernetes, AWS, Sagemaker, Odoo, Owl
Databases:	SQL, PostgreSQL

PROJECTS / OPEN-SOURCE

Google-Meet-Bot | [Link](#) (Stars 79 | Forks 26) *Python3, Chrome Browser, OpenAI, Gmail, Selenium*

This Python bot automates the process of logging into Gmail, joining Google Meet meetings, and recording the audio. After the meeting, it generates a summary, highlights key points, extracts action items, and performs sentiment analysis streamlining meeting management and improving productivity.

DocuQuest | [Link](#) *Python3, Streamlit, RAG, OpenAI API, Supabase, Faiss*

DocuQuest is an AI-powered tool that allows you to easily interact with PDF documents. Simply upload a file, and it extracts key information, answers questions, and provides summaries using OpenAI's models. Data is securely stored in Supabase, enabling fast search, all through a clean interface built on Streamlit ideal for researchers, students, and professionals.

NFSU Chat Assistant | [Link](#) *AI Agent, RAG, Python3, Flask, Supabase, Groq, OpenAI Embeddings*

This AI-powered chat assistant is designed for the National Forensic Sciences University (NFSU) website, offering seamless, 24/7 support to students, faculty, and visitors. Using advanced NLP, it provides instant responses to queries related to admissions, academic programs, campus facilities, and events, ensuring accurate and user-friendly assistance at all times.

ShieldCoin | [Link](#) *Web3, Smart Contract, Blockchain*

ShieldCoin is a revolutionary digital currency designed by the NFSU Blockchain Security and Analysis team. It aims to provide unparalleled security and transparency in blockchain transactions, ensuring a safe and efficient digital economy.

CERTIFICATIONS

- IBM Machine Learning specialization - **Coursera**
- DeepLearning.AI NLP specialization - **Coursera**
- DeepLearning.AI TensorFlow Developer - **Coursera**
- Introduction to containers w/Docker, Kubernetes & OpenShift - **Coursera**