

Dhruv Puri

AI/ML Engineer | Founding Full Stack Engineer | SDE

• dhruvpuri00766@gmail.com • +917007228013 • [My Portfolio](#) • [LinkedIn](#) • [GitHub](#)

SUMMARY

Software Engineer with 3 years of experience developing a diverse range of scalable applications, from 3D printer HMIs to AI agents using **Generative AI** and **RAG pipelines**. Combines expertise in **Python, React, LangGraph, and CI/CD Pipelines** to build impactful solutions that slash post-release bugs by 20% and reduce user setup time by 30%.

PROFESSIONAL EXPERIENCE

JUICELABS.AI

BENGALURU, INDIA.

AI/ML Engineer

OCT 2025 - Present

- Built research pipelines for ad-creative generation, including data collection, advanced prompting, model evaluation and multimodal asset synthesis.
- Designed multi-agent orchestration workflows to generate and iterate scripts, images and videos using **Sonnet 4.5, Gemini 2.5 Flash and VEO 3.1**, enabling faster creative experimentation.

SYTOLAB / KREATOR3D

BENGALURU, INDIA.

Founding Software Engineer

JAN 2024 - OCT 2025

- As the sole developer, led the end-to-end creation of a 3D printer HMI (**React, Flask**) with a Computer Vision (**OpenCV**) module, improving print accuracy by 50% and reducing user setup time by 40%.
- Engineered the hardware integration layer for the HMI on embedded Linux (Raspberry Pi), establishing robust firmware communication increasing print accuracy by 30%.

PAYTM

DELHI, INDIA.

Software Development Engineer in Test

JAN 2023 - JAN 2024

- Python automation framework for device and high-volume **REST API** testing, and integrated it into a **Jenkins CI/CD** pipeline, resulting in a 50% reduction in testing cycles, 25 hours of manual effort saved weekly, and a 15% decrease in deployment delays. Generated test reports (**Matplotlib**) that identified 50+ critical pre-release bugs, tracking them in **JIRA** and cutting post-release issues by 20%.
- Leveraged **AWS (S3, DynamoDB), Boto3 SDK, SQL, and Kafka** streams to manage and validate test data across 10M+ transactions; generated **Matplotlib** reports from this data to identify 50+ critical bugs in **JIRA**, slashing post-release issues by 20%.

PROJECTS

[AGENTIC RAG SYSTEM WITH LANGGRAPH](#)

An intelligent conversational AI system with chat context that converts natural language queries into SQL operations and generates multi-format outputs (text summaries, data tables, and visualizations) using advanced workflow orchestration. Built using **Python, LangGraph, Azure OpenAI API, SQLite, Pandas, Matplotlib/Seaborn**, with production-ready features including conversational memory, error handling, rate limiting, and SQL injection protection.

[AGENTVC](#)

Architected a conversational AI platform for founders to practice investor pitches, featuring a document processing pipeline that analyzes pitch decks to generate feedback. The full-stack application was built with **Python (Flask/FastAPI), React, PostgreSQL, real-time transcription APIs, and Docker**.

SKILLS

PROGRAMMING LANGUAGES: PYTHON, JAVA, SQL, C/C++, HTML/CSS, JAVASCRIPT	FRAMEWORKS/LIBRARIES: REACTJS, NEXTJS, FLASK, NODE.JS	LLM/RAG: LANGGRAPH, RAG PIPELINES, VECTOR DATABASES (CHROMADB, QDRANT)
PROMPT ENGINEERING: JSON, XML, YAML PROMPTING	GENERATIVE AI: IMAGE GENERATION (NANO BANANA, SEEDDREAM 4.0)	WORKFLOW AUTOMATION: N8N, MAKE.COM
TESTING TOOLS: CYPRESS, SELENIUM, POSTMAN, JIRA	CLOUD & DEVOPS: AWS (S3, DYNAMODB), DOCKER, JENKINS, GIT	DATABASES: MONGODB, DYNAMODB

EDUCATION

DR APJ ABDUL KALAM TECHNICAL UNIVERSITY | B.TECH HONORS, ELECTRONICS & COMMUNICATIONS ENG.