



VARAMAL DEVRAJ KHERAJ

AI ENGINEER

CONTACT

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PROFILES

[GitHub](#)
[LinkedIn](#)
[Portfolio](#)

TECHNICAL STACK

AI / LLM Systems

Generative AI, LLM applications, prompt engineering, structured outputs, evaluation, multimodal AI, OpenAI APIs, Hugging Face

RAG / Retrieval

RAG, embeddings, ChromaDB, FAISS, Sentence-Transformers, CLIP, reranking, metadata filtering, retrieval evaluation

Agentic AI

LangChain, LangGraph, CrewAI, AG2/AutoGen, BeeAI, MCP, tool/function calling, memory, multi-agent orchestration

ML / Deep Learning

PyTorch, TensorFlow/Keras, Scikit-learn, CNNs, Vision Transformers, NLP, transfer learning, classification, model evaluation

Software Engineering

Python, FastAPI, Flask, REST APIs, SQL/PostgreSQL, SQLAlchemy, Docker, Git/GitHub, testing and debugging

Automation

UiPath, n8n, Make, Zapier, webhooks, API workflows, PDF/Excel/email automation, Orchestrator concepts

PROFESSIONAL STRENGTHS

Structured problem solving • Technical research • Documentation • Independent learning • Experimentation • AI-assisted development

CAREER PROFILE

AI Engineer whose strength is AI leverage — I build AI systems and run real work on them: built with AI, for AI. One year of intensive applied training and engineering work (2025–2026), backed by 12 verified professional credentials. Builds practical systems across Generative AI, LLM applications, RAG, AI agents, deep learning, automation and backend engineering. Pursuing an Online BCA at Manipal University Jaipur alongside hands-on, industry-oriented project work.

APPLIED AI ENGINEERING EXPERIENCE

APPLIED AI ENGINEERING TRAINING | 2025–2026

One continuous year of structured, full-time-equivalent professional training and independent engineering work across 12 industry/university programs. Completed all courses, labs, graded projects and capstones; presented transparently as training and project work rather than paid employment.

GENERATIVE AI, RAG & AGENTIC SYSTEMS

Built an end-to-end agentic RAG capstone with ingestion, chunking, embeddings, vector retrieval, tool use, conversational memory and grounded responses. Applied Chroma, Sentence-Transformers, CLIP, LangChain/LangGraph, FastMCP and Gradio/Flask interfaces.

DEEP LEARNING & COMPUTER VISION

Engineered a geospatial land-classification pipeline in Keras and PyTorch; compared CNN, Vision Transformer and hybrid CNN–ViT architectures with transfer learning, augmentation and optimized data-loading pipelines. Evaluated accuracy, precision, F1 and ROC trade-offs.

AI AGENTS & WORKFLOW ENGINEERING

Designed Python agents with goals, actions, memory and environment interaction; implemented tool/function calling, ReAct/reflection patterns, multi-agent coordination, structured outputs, evaluation and error recovery. Built document-analysis, data-analysis and custom-assistant workflows.

AUTOMATION & AI-ASSISTED SOFTWARE ENGINEERING

Designed UiPath business-process bots using selectors, control flow, exception handling and document/data extraction. Applied Claude Code, OpenAI GPTs/Codex, Make, Zapier and n8n to full-stack development, testing, debugging and workflow automation.

SELF MADE SYSTEMS

9 public engineering systems with source code available from the GitHub profile in the sidebar. Individual live-demo and project URLs are intentionally omitted.

Enterprise RAG Engine

Production-oriented RAG with ingestion, chunking, embeddings, vector search and an evaluation harness.

Infrastructure Diagnostics Agent

Autonomous Kubernetes/Prometheus root-cause analysis agent that correlates telemetry and proposes remediation.

Semantic Code Search

Repository-scale semantic search combining embeddings with AST structure for precise code retrieval.

Agentic CLI Workspace

Coding agent that analyzes repositories, plans, edits, runs tests and verifies its own changes.

MCP Tool Registry

MCP-based registry/runtime for discovering, exposing and invoking tools across agents and hosts.

Deep Research Orchestrator

Long-horizon research agent that decomposes questions, gathers evidence and produces cited reports.

Realtime Voice AI

Low-latency conversational voice system using WebSockets and streaming speech with barge-in handling.

Multimodal Vision QA

Vision-first document and chart QA pipeline grounded in visual content.

PRAMAAN

Zero-trust security architecture for RAG, with access control and evidence-bound citations. Team Madmax • Code Carnival 3.0 • PS-01 • team lead Nikhil Rathod • Devraj team member.

PORTFOLIO

dev4aibots.com

Visit portfolio to know more

EDUCATION

Bachelor of Computer Applications
(BCA)

Manipal University Jaipur,
Rajasthan

Online / Distance Education
Currently pursuing

Chosen to continue formal
academic study while building
hands-on, industry-oriented project
experience.

HOBBIES

Cricket • Music • Cinema • Books &
Reading • AI & emerging technology

PROFESSIONAL CREDENTIALS

12 verified Coursera credentials completed across 2025–2026, including all courses, labs, graded projects and capstones. Certificate titles are clickable for verification.

[Generative AI for Software Development Professional Certificate](#) | DeepLearning.AI • Sep 2026

[Build Anything with AI: No Code Required Specialization](#) | Vanderbilt University • Sep 2026

[Generative AI Software Engineering Specialization](#) | Vanderbilt University • Sep 2026

[IBM AI Engineering Professional Certificate](#) | IBM • May 2026

[Robotic Process Automation \(RPA\) Specialization](#) | UiPath • Mar 2026

[IBM RAG and Agentic AI Professional Certificate](#) | IBM • Feb 2026

[Generative AI for Automating HR Workflows Specialization](#) | Edureka • Feb 2026

[AI Agent Developer Specialization](#) | Vanderbilt University • Feb 2026

[AI Agents and Agentic AI in Python: Powered by Generative AI](#) | Vanderbilt University • Jan 2026

[Building AI Agents and Agentic Workflows Specialization](#) | IBM • Jan 2026

[Generative AI Automation Specialization](#) | Vanderbilt University • Jan 2026

[IBM AI Developer Professional Certificate](#) | IBM • Dec 2025

CAPSTONE HIGHLIGHTS

- Geospatial AI capstone - satellite-image terrain classification with CNN, Vision Transformer and hybrid CNN-ViT models.
- RAG & Agentic AI capstone - grounded retrieval, conversational memory, dynamic tool routing and deployed application interface.
- AI Developer projects - document Q&A/RAG, voice assistant, meeting companion, multilingual translation and private-data summarisation.
- RPA capstones - deployable business-process bots integrating UI automation, data extraction, exception handling and Orchestrator concepts.
- Software engineering projects - configuration-driven DALL-E application, e-commerce CRUD database, social-network data model and design-pattern implementations.

CAREER FOCUS

AI Engineering • Generative AI / LLM Engineering • RAG & Vector Search • AI Agents & Automation • Python Backend Engineering • Applied Machine Learning • AI-assisted Software Engineering

Open to entry-level, internship, full-time, contract and project-based opportunities.

APPLIED AI — MOTION & FILM

Love Me Not — Animated Music Film

Meaning-led animated lyric film produced with AI — code-rendered motion, kinetic typography and AI-directed production, built end to end as applied AI.

Alfaaz — Animated Lyric Film

Animated lyric film for the Hamza Malik and Zain Zohaib song — meaning-led AI motion graphics, produced on the same code-rendered production pipeline.