

S PRAJWALL NARAYANA

AI Engineer · Agentic Systems · DevOps Infrastructure

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TECHNICAL SKILLS

AI & LLM LLMs, Claude API, Prompt Engineering, Agentic Systems, MCP Orchestration, LangChain, CNN, YOLOv8, TensorFlow, PyTorch, OpenCV

Backend & Infra Python, FastAPI, PostgreSQL, Docker, Ansible, OpenTofu, Linode, Zitadel, CI/CD, Linux

Other Streamlit, Microfrontend Architecture, SQL, Swift, Raspberry Pi

EDUCATION

R V College of Engineering (VTU) Dec 2021 – Aug 2025 · Bengaluru, IN
B.E. Computer Science & Engineering

EXPERIENCE

Colligence Research Nov 2024 – Present · Bengaluru, IN
Founding Team · AI Engineer & Prompt Engineer

- Co-built an autonomous compiler that converts structured interviews into production-ready, animated applications — eliminating manual scaffolding entirely.
- Integrated Claude Code as a live recovery agent to monitor deployed apps, detect runtime failures, and resolve them autonomously with zero manual intervention.
- Architected the full DevOps stack on Linode: Docker containerization, Ansible + OpenTofu provisioning, Zitadel auth, and microfrontend UI layer.
- Designed multi-agent LLM prompt workflows for ERP automation via MCP orchestration, ensuring reliable outputs across long, high-context inference runs.
- Built Python automation pipelines; developing an error-prediction model to surface failures before application execution.

Arogya-Sathi — AI-Powered Multilingual Healthcare Platform Jan 2025 – Jun 2025 · RVCE Final Year Project
Python · LLaMA 3.2 · LangChain · YOLOv8 · OCR · STT/TTS · Streamlit · PyTorch

- Built a multilingual healthcare platform — symptom checker, X-ray fracture analyzer, prescription summarizer, and wellness chatbot — achieving 93% symptom-detection accuracy across 30 languages (22 Indian, 8 international).
- Engineered fully offline operation via quantized models and encrypted local caching; deployed on Raspberry Pi for low-connectivity regions.

RVCE Centre of Excellence Oct 2024 – Dec 2024 · Bengaluru, IN
Research Intern — AI & Deep Learning

- Designed and trained a multimodal deepfake & AI-generated content detection system (visual + audio) from scratch — no external APIs.
- Achieved 92.3% accuracy, 90.7% precision, and 91.5% recall on FaceForensics++ and DFDC benchmarks.

Ernst & Young India Aug 2024 – Sep 2024 · Bengaluru, IN
Associate Consultant Intern — Enterprise Cybersecurity (Return offer extended; declined for academic commitments)

- Applied the SABSA Framework to cloud security design, IAM architecture, and compliance requirements for the IFTAS Cloud financial system.

PROJECTS

KnatesCentral knatescentral.vercel.app · Python · Streamlit · HTML/CSS

- Centralized academic resource platform for RVCE students (notes, past papers, lab manuals) that grew to 800–1,000 monthly active users entirely through word-of-mouth.

PUBLICATIONS — IEEE XPLORE · NOV 2024

Web-Server Controlled Rover with Robotic Arm and Object Detection

Modular LAN-controlled rover — ESP32, YOLOv3 object detection, 4-DOF robotic arm, real-time camera streaming.
ieeexplore.ieee.org/document/10816816

An Empirical Study of ResNet50 Hyperparameter Tuning for Plant Disease Classification

Benchmarked key hyperparameters across multiple datasets; findings improve model reliability for real-world agricultural deployment.
ieeexplore.ieee.org/document/10816835

CERTIFICATIONS

Introduction to Graph Algorithms NPTEL · 2024

Data Science for Engineers NPTEL · 2023