

PRAVEEN L KUMBALUR

AI/ML ENGINEER | GENERATIVE AI | RAG | FULL-STACK DEVELOPMENT

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SUMMARY

Artificial Intelligence Engineering student with hands-on experience in AI/ML, RAG, full-stack development, and intelligent systems. Skilled in building practical AI solutions using machine learning, NLP, computer vision, LLMs, and modern web technologies. Experienced in developing real-world applications and delivering AI-driven solutions across agriculture, civic technology, and customer intelligence.

WORK EXPERIENCE

AI/ML Developer — SSN Infotech

May 2026 – Aug 2026

- Built a production Windows Company Activity Agent for system telemetry and application monitoring.
- Designed dual-session architecture for system metrics, foreground-app tracking, heartbeats, and offline telemetry.
- Packaged and deployed the agent as a standalone Windows service with automated installation and management.

Full Stack Developer Intern — Zidio Development

Aug 2026-Present

- Built LOOP, an AI customer-feedback SaaS using Next.js, TypeScript, PostgreSQL, Prisma, Gemini, and Ollama.
- Implemented a RAG-powered assistant using embeddings, vector search, cosine similarity, structured response parsing, and AI-generated theme analysis for evidence-based customer feedback Q&A.
- Built multi-tenant RBAC, REST APIs, CSV ingestion, Zod validation, analytics dashboards, and unit/integration testing, with roles including OWNER, ADMIN, ANALYST, and VIEWER.

SKILLS

- Programming: Python, JavaScript/TypeScript, SQL, C
- AI/ML: RAG, Machine Learning, Deep Learning, NLP, Computer Vision, PyTorch, OpenCV
- Web Development: React.js, Next.js, Node.js, Express.js, HTML, CSS, Tailwind CSS
- Database & Tools: PostgreSQL, MongoDB, Prisma, Git/GitHub, Recharts, Leaflet, Zod, Figma
- Languages: Kannada (Native), English (Fluent), Hindi (Fluent)

EDUCATION

Bachelor of Engineering — Artificial Intelligence & Machine Learning

- Aditya College of Engineering and Technology, Bengaluru
- 2024 – 2028 | CGPA: 8.85/10

PROJECTS

LOOP — AI Customer Feedback Intelligence Platform

- Built an AI-powered SaaS platform using Gemini/Ollama to classify customer feedback by sentiment, score, feature area, and summary.
- Implemented a RAG-powered assistant using embeddings, vector search, and cosine similarity for evidence-based Q&A over customer feedback.
- Developed AI theme clustering, VoC reports, analytics dashboards, CSV ingestion, and multi-tenant RBAC using Next.js, Prisma, and PostgreSQL.

CivicPulse — Multilingual AI Digital Public Good

- Built a multilingual AI platform for voice/text citizen feedback, performing language identification, translation, infrastructure classification, and urgency scoring.
- Implemented DBSCAN geospatial clustering and interactive GIS maps to identify high-urgency infrastructure demand hotspots.
- Developed an MCDA project prioritization engine ranking infrastructure investments using demand, deficit, vulnerability, and feasibility factors.

KrishiMithra — AI Smart Agriculture Platform

- Developed an AI-powered smart agriculture platform for crop disease detection using computer vision.
- Implemented multilingual farmer assistance, weather insights, and intelligent crop recommendations.
- Applied image processing and AI-based analysis to help farmers identify crop-related issues.
- Trained and evaluated disease detection models on agricultural image datasets to improve diagnosis accuracy.

Malware Detection

- Developed a machine learning-based system to detect and classify potentially malicious files.
- Applied data preprocessing and feature extraction techniques to identify malware patterns.
- Evaluated model performance using classification metrics to improve detection accuracy.
- Trained and tested models on malware datasets using Scikit-learn and Pandas for automated threat classification.

ACHIEVEMENTS

- 1st Place — AI-Powered Solution Competition, Aditya College of Engineering & Technology
- Winner — PromptWars, Google Developers
- Team Captain — GeeksforGeeks Hackathon

HACKATHONS

- Team Captain — HackFest, GeeksforGeeks Classroom Program
- Participant — EPOCH'26 Grand National Hackathon
- Participant — Advaya 2K26 24-Hour Hackathon
- Participant — Hack Buza, IKYA 2024