

# KISHAN K

## Software Engineer | AI and ML Engineer

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**GitHub:** [github.com/kishanaik5](https://github.com/kishanaik5) • **LeetCode:** [leetcode.com/u/ZXO2yYfahk/](https://leetcode.com/u/ZXO2yYfahk/) • **Portfolio:** <https://kishan-k.pages.dev>

## SUMMARY

Software Engineer specializing in AI and Machine Learning with a focus on data extraction, pipeline architecture, and scalable model deployment. Experienced in developing high-precision applications utilizing LLMs and computer vision to optimize industrial and agricultural workflows. Proven ability to build end-to-end AI systems that drive measurable efficiency gains and user engagement.

## EXPERIENCE

### Software Engineer (AI/ML)

#### Silo Fortune Private Limited

10/2025 – Present • Bengaluru

- Designed and deployed the Kisaan Sampurna multimodal intelligence pipeline, merging computer vision disease detection with Gemini 2.5 Flash for real-time treatment advisory.
- Integrated satellite (NDVI/UVI) and 7-day weather APIs to produce multilingual advisories for 12+ Indian languages, achieving 92%+ precision.
- Orchestrated a production-grade FastAPI microservices ecosystem with PostgreSQL isolation, Redis caching, and Docker CI/CD.
- Improved reliability and cut downtime by 40% while architecting a secure AI orchestration layer for plugin-based routing, handling over 10,000+ API requests daily.

### AI and Automation Intern

#### Sumedha Design Systems Pvt. Ltd

02/2025 – 08/2025 • Hyderabad

- Streamlined a multimodal data extraction pipeline using GCP Vision API and AWS S3 to process 10,000+ pages of technical documentation.
- Engineered automated RAG systems for MCQ generation, reducing manual content creation time by 60% through intelligent document chunking.
- Developed multi-agent LLM workflows and architected an advanced retrieval framework integrating LlamaIndex and FAISS for vector similarity search.
- Implemented hybrid search and re-ranking algorithms that increased learner engagement by 15% and reduced system latency by 50%.

## EDUCATION

### B.E. in Artificial Intelligence and Machine Learning

#### Ramaiah Institute of Technology

12/2021 – 07/2025 • Bengaluru

**CGPA:** 8.6 / 10

## SKILLS

### Programming

Python (AsyncIO), C/C++, SQL

### AI & GenAI

Google Gemini (Flash/Pro), OpenAI API, TensorFlow, PyTorch, Transformers, ViT, CNNs

### MLOps & DevOps

Docker/Compose, GitHub Actions, CI/CD, MLflow, DVC, AWS SageMaker

### Web/Backend

FastAPI, Django, Flask, Pydantic, SQLAlchemy, Alembic, React.js, React Native, Node.js, REST APIs

### Cloud Platforms

AWS (RDS/S3), GCP, Azure, Render, Vercel

### AI Frameworks

LangChain, LlamaIndex, Rasa, Dialogflow, Streamlit, LiveKit

### Databases

PostgreSQL, MongoDB, MySQL, FAISS (Vector DB)

## PROJECTS

### Yield & Weather Forecast Agent

[tinyurl.com/yield-weather-agent](https://tinyurl.com/yield-weather-agent)

- Architected a FastAPI backend integrating Agromonitoring and Google Maps APIs to deliver localized 5-day forecasts.
- Implemented IST date-based caching in PostgreSQL to reduce API latency.

### Intelligent Crop Diagnostic System

[tinyurl.com/github-agri-repo](https://tinyurl.com/github-agri-repo)

- Devised an intelligent diagnostic system using deep learning with Gemini Pro model support and Knowledge-Based Agents.
- Automated identification of 360+ crop varieties with 94% precision.

### RAG for VLSI Automation

[tinyurl.com/github-RAG-VLSI](https://tinyurl.com/github-RAG-VLSI)

- Constructed an AI-powered RAG system using Transformers to automate generation of 2,000+ technical MCQs.
- Achieved high contextual relevance and accelerated content creation by 3x.

## PUBLICATIONS

### Performance Evaluation of Deep Learning Models for Predicting Alzheimer's Disease

IEEE Bangalore Section, 2024

### Enhancing Predictive Maintenance with SHAP and LIME: A Framework for Explainable AI

ICAI – ARSSS, 2025

More projects at <https://kishan-k.pages.dev/#projects>