



Kishan K

AI & Software Engineer | Machine Learning & Cloud Developer

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PROFESSIONAL SUMMARY

AI Engineer skilled in Python, machine learning, and cloud development. I build and deploy scalable AI pipelines, automation systems, and full-stack applications. My focus is on delivering production-ready solutions and advancing model performance through explainable AI research.

EDUCATION

Ramaiah Institute of Technology, Bengaluru

2021–2025

B.E. in Artificial Intelligence and Machine Learning

- 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

Chatbots:

LangChain | Rasa | Dialogflow | Streamlit | LiveKit

Databases:

PostgreSQL | MongoDB | MySQL | FAISS (Vector DB)

Visualization:

Tableau | Power BI | Matplotlib | Pandas

EXPERIENCE

Silo Fortune Private Limited – Software Engineer - AI/ML

Bengaluru | Oct 2025 – Present

- Architected the **Kisan Sampurna CV Service**, a scalable **FastAPI** microservice leveraging **Google Gemini 2.5/3.0** for real-time crop disease diagnosis and precise bounding-box localization (GenAI).
- Engineered a robust production architecture with dedicated **PostgreSQL** schema isolation, **AWS S3** integration, and crash-proof **Docker** pipelines, transitioning the system to the new **Google GenAI SDK** for long-term stability.
- Optimized Conflux AI Plugin to integrate the full Gau Sampurna e-commerce pipeline into HeiBuddy.ai, implementing a secure multi-step ORC authentication layer for reliable customer identity linkage.
- Developed core Applied AI services including an NLP chatbot (Rasa/LangChain) and Soil Prediction Model to drive data-backed agricultural insights.

Sumedha Design Systems Pvt. Ltd. – AI-Automation Intern

Hyderabad | Feb 2025 – Aug 2025

- Developed Retrieval-Augmented Generation (RAG) pipelines using LLMs for automating MCQ generation and requirement-response workflows in the VLSI domain.
- Built multi-agent AI systems that enhanced content personalization and learner engagement.

Pragami Solutions Pvt. Ltd. – Machine Learning Intern

Bangalore | Jan 2025 – Feb 2025

- Delivered a full-stack Productivity Management System to streamline operations for small-scale industries and Conducted research on lung disease prediction.

PROJECTS

NLP Health Tracker – Full-Stack Fitness Dashboard

2025

Developed a cloud-based dashboard integrating NLP for intelligent activity logging and analytics. Designed a React/Material-UI interface with a Node.js/Express backend using NLP APIs and Google Sheets for scalable storage.

- *Key Technologies:* React.js, Node.js, NLP APIs (Nutritionix), Google Sheets, REST APIs

Retrieval-Augmented Generation Solution – AI Automation for VLSI

2025

Engineered an AI-powered RAG system using Transformers and prompt engineering to automate MCQ generation for VLSI education. Integrated MongoDB for scalable storage and AWS for deployment.

- *Key Technologies:* Python, HuggingFace Transformers, MongoDB, AWS EC2/S3, Prompt Engineering

Productivity Management System – Full-Stack Web App

2025

Designed a task-tracking system for manager–employee workflows using the MERN stack and Google APIs. Optimized MongoDB queries for real-time performance and and deployed on cloud platforms.

- *Key Technologies:* Node.js, MongoDB Atlas, React, Google API Text-to-Speech, Git, Render

Domestic Waste Segregation Using Deep Learning

2024

Built an IoT-based smart waste segregation solution using ESP-32 and Inception ResNet V2, achieving 92.5% test accuracy. Developed a user interface for dataset uploads and live model testing.

- *Key Technologies:* PyTorch, ReactJS, Flask, ESP-32

Mental Health Chatbot Using LLMs – Smart India Hackathon

2023

Created a user-centric AI chatbot leveraging RNN-LSTM and Transformers for context-aware mental health conversations.

- *Key Technologies:* Python, TensorFlow, NLTK, Transformers, Flask

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

CERTIFICATIONS

100 Days of Code: The Complete Python Pro Bootcamp

Udemy

Machine Learning, Data Science and Generative AI with Python

Udemy

Complete Data Science, Machine Learning, Deep Learning, NLP Bootcamp

Udemy

Introduction to Microsoft Azure Cloud Services

Coursera

AWS Cloud Support Associate

Coursera