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 **Kisaan Sampurna CV Service**, a scalable **FastAPI** microservice leveraging **Google Gemini 2.5/3.0** for real-time crop disease diagnosis, achieving **sub-second inference latency** and **92%+ detection accuracy** (GenAI).
- Engineered a robust production architecture with dedicated **PostgreSQL** schema isolation and crash-proof **Docker** pipelines, reducing infrastructure-related downtime by **40%** and ensuring **99.9% system uptime**.
- Optimized Conflux AI Plugin to integrate the full Gau Sampurna e-commerce pipeline into HeiBuddy.ai, implementing a secure multi-step ORC layer that improved customer identity linkage reliability by **35%**.
- **Implemented** core Applied AI services including an NLP chatbot (Rasa/LangChain) and Soil Prediction Model, resulting in a **20% increase** in data-backed agricultural insight generation speed.

Sumedha Design Systems Pvt. Ltd. – AI-Automation Intern   Hyderabad | Feb 2025 – Aug 2025
- **Spearheaded** Retrieval-Augmented Generation (RAG) pipelines using LLMs for automating MCQ generation, reducing manual content creation time by **60%** in the VLSI domain.
- **Devised** multi-agent AI systems that enhanced learner engagement scores by **15%** through real-time content personalization.

Pragami Solutions Pvt. Ltd. – Machine Learning Intern   Bangalore | Jan 2025 – Feb 2025
- Delivered a full-stack Productivity Management System that improved operational workflow efficiency by **25%** for small-scale industries.

PROJECTS

NLP Health Tracker – Full-Stack Fitness Dashboard   2025
Constructed a cloud-based dashboard integrating NLP for activity logging, processing over **500+** food queries with intelligent analytics using React and Node.js.
• *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 to automate MCQ generation, achieving a **high contextual relevance score** and integrating MongoDB for scalable storage.
• *Key Technologies:* Python, HuggingFace Transformers, MongoDB, AWS EC2/S3, Prompt Engineering

Productivity Management System – Full-Stack Web App   2025
Launched a task-tracking system for manager–employee workflows using MERN stack, resulting in **real-time synchronization** of tasks across 10+ concurrent users.
• *Key Technologies:* Node.js, MongoDB Atlas, React, Google API Text-to-Speech, Git, Render

Domestic Waste Segregation Using Deep Learning 2024
Pioneered an IoT-based waste segregation solution using Inception ResNet V2, achieving **92.5% test accuracy** and reducing manual sorting errors.
• *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 conversations, supporting **multi-turn dialogue** for mental health support.
• *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