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	C/C++	SQL
AI & ML:	TensorFlow	PyTorch	Scikit-learn	Transformers	CNNs	LSTMs	ViT	OpenAI API
MLOps & DevOps:	Docker	MLflow	DVC	Jenkins	CI/CD	GitHub Actions	SageMaker	Vertex AI
Web/Backend:	React.js	Node.js	FastAPI	Django	REST APIs	Express
Cloud Platforms:	AWS	GCP	Azure	Render	Vercel	Hugging Face Spaces
Chatbots & LLMs:	LangChain	Rasa	Dialogflow	Streamlit	HuggingFace	LiveKit
Databases:	MongoDB	MySQL	PostgreSQL	FAISS	MongoDB Atlas
Visualization:	Tableau	Power BI	Matplotlib	NumPy	Pandas

EXPERIENCE

Silo Fortune Private Limited – Software Engineer - AI/ML   Bengaluru | Oct 2025 – Present
- Optimized Conflux AI Plugin to integrate the full Gau Sampurna e-commerce pipeline into HeiBuddy.ai, including a secure multi-step ORC authentication layer for reliable customer identity linkage.
- Developed and deployed two core Applied AI services for agricultural insights: an NLP chatbot (Rasa/LangChain) and integrated Soil Prediction Model for agricultural recommendations for the Kissan Sampurna App.

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 & CERTIFICATIONS

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