

KARNATAKAM RISHI KIRAN

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SUMMARY

AI Engineer specializing in computer vision and generative AI, with a track record of building applications achieving 95%+ accuracy for 250+ users. Proficient in the end-to-end development lifecycle using Python, TensorFlow, and cloud platforms (AWS, GCP) to architect and deploy scalable, full-stack solutions.

EXPERIENCE

INBOXKIT

Feb 2026 – Present

Full stack Developer

Remote

- Implemented backend APIs, validation, and platform controls including rate limiting, org-scoped API keys, mailbox lifecycle management (reactivation/uncancel flows), and domain-level mailbox limits to improve system reliability and access control.
- Built and enhanced product features across the platform such as domain management workflows, batch mailbox forwarding management UI, webhook storage & delivery system, and CRM integration features.
- Improved platform stability and workflows by migrating email validation integrations, implementing authentication features (Passkey, forgot password), middleware, and fixing production issues across dashboard and API services.

INVARO.AI

Oct 2025 – Feb 2026

AI Intern

Remote

- Designed and built a cross-platform AI meeting capture and transcription desktop application ("Invaro Scribe") with real-time transcription and AI-generated summaries, and architected its full integration with the main web platform for secure data management.
- Implemented an organization-based architecture in the web application, transforming the system into a full multi-user organizational model for team management and access control.
- Engineered new routing logic for AI agents to understand and operate on meeting data, dramatically expanding automation capabilities, and delivered production UI enhancements improving application stability and performance.

AKSI AI AEROSPACE AGRI TECHNOLOGY VENTURES PVT LTD

Jan 2025 – Jul 2025

Python Engineer

Hyderabad

- Engineered an automated defect detection system for wind turbines using drone imagery, achieving over 95% accuracy in identifying structural faults.
- Implemented Mask R-CNN for precise object segmentation, which automated the analysis of thousands of images and reduced manual inspection time by 60%.
- Streamlined the model inference pipeline for real-time analysis, improving system reliability and enabling a 25% faster turnaround for predictive maintenance reports.

PROJECTS

AI-Powered Resume Builder craftairesume.netlify.app

May 2025 – Nov 2025

Technologies: Supabase, Gemini API, Python, GCP

- Built an AI-powered resume builder serving 250+ users, using Google Gemini API to improve resume content and increase ATS compatibility by over 20%.
- Architected a full-stack application with Supabase and GCP, achieving 99.9% uptime and reducing document creation time by 40%.

AI-Integrated Plant Disease Detection Mobile App

Apr 2025 – May 2025

Technologies: *Flutter, TensorFlow Lite, MongoDB*

- Developed a mobile app for real-time disease detection, achieving 95%+ accuracy using an optimized TensorFlow Lite model.
- Optimized on-device inference with a 2-second response time and managed 500+ diagnostic records using MongoDB Atlas for data persistence.

AI-Powered Chess Engine

Aug 2024 – Sep 2024

Technologies: *Python, Minimax Algorithm*

- Programmed an AI chess engine with minimax and alpha-beta pruning, boosting move generation speed by 30%.
- Enhanced strategic depth by 20% and developed an intuitive Tkinter GUI, leading to a better user gameplay experience.

Cotton Plant Disease Detection

Feb 2024 – Mar 2024

Technologies: *Python, TensorFlow, CNN*

- Designed a CNN model using transfer learning to classify cotton leaf diseases, achieving 90%+ accuracy and outperforming baseline models by 25%.
- Processed and augmented a dataset of over 10,000 images to enhance model generalization and ensure reliability in field deployments.

EDUCATION

NNRESGI

Dec 2021 – Jun 2025

Bachelor of Technology in Computer Science and Engineering

- GPA: 8.4/10.0

SKILLS

- **Programming Languages:** Python, SQL
- **AI/ML & Deep Learning:** Computer Vision, Deep Learning, LLMs
- **Cloud & Databases:** AWS (EC2, S3), Google Cloud Platform (GCP)
- **Tools & Development:** Git, GitHub, Gemini API

CERTIFICATIONS

Python For Data Science, IIT Madras (NPTEL)

Jan 2025

AWS Academy Cloud Architecting, AWS Academy

Sep 2024

Supervised Machine Learning: Regression and Classification, Stanford Online (Coursera) Jun 2023

AWARDS

National Hackathon on Generative AI

Sep 2024

- Secured 2nd Place in a National Level Hackathon focused on Generative AI solutions.

Internal Hackathon on Generative AI

Aug 2024

- Achieved 3rd Place in a college-hosted Hackathon focused on Generative AI innovation.