# ABHISHEK G

AI/ML Engineer

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## Summary

As an experienced IT professional with more than three years in the industry, including two years as an AI/ML Engineer, I have a proven track record of deriving meaningful insights from complex data. I specialize in leveraging advanced AI techniques to design and deploy machine learning models. My experience includes developing practical solutions, particularly in banking and fraud detection.

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## Skills

Gen-AI · Machine Learning · Natural Language Processing · OCR · Docker · Flask · Model Optimization · Python · MongoDB · MySQL · Transformers · ServiceNow · OpenCV · Scikit-learn · PyTorch · Artificial intelligence · Deep Learning · Neural Networks

## Experience

**SimplyFI Innovations PTE Ltd**                                       Bengaluru
AI/ML Engineer                                                    06/2023 - Present

A technology company specializing in AI and ML solutions

- Worked with **CycleGAN** for a crucial project to improve **the accuracy of an existing banking application.**
- Collaborated with a banking client to develop a **fraud detection model** leveraging **computer vision techniques.**
- Developed an end-to-end AI-powered product called **CyberGPT** using **GPT-4 technology**, featuring capabilities such as **image comparison, document comparison, and security vulnerability assessments.**
- Implemented a **speech-to-text system** using **OpenAI's Whisper Medium model.**
- Developed a **RAG-based model** to accurately extract fields from invoices using a **quantized Mistral-7B model.**
- Contributed to the development of a **GPT-based medical chatbot** designed to **analyze patient health history and suggest possible diagnoses.**
- Worked with **the DONUT model** to extract **user-specific content** from invoices.
- Hands-on experience with **Docker** for deploying **APIs and applications** on-premises.
- Developed **Flask APIs** to integrate with **the ServiceNow ticketing system** and other services.
- Developed a **chatbot for the agricultural domain** to assist farmers by **fine-tuning the Llama 3.2 Vision model.** The chatbot allows farmers to **upload images and ask specific questions about them** or seek guidance on **crop-related issues and doubts.**
- In addition to developing the chatbot, also worked on two other use cases where **farmers send soil sensor data** and receive **weekly recommendations based on the data.** These recommendations help farmers make **informed decisions for better soil and crop management.**

**Quantum Dynamics**                                                      Remote
Data Science Intern                                              02/2023 - 05/2023

A remote internship focusing on data science and AI

- Gained hands-on experience with **OCR engines** such as **PaddleOCR** and **Tesseract**.
- Acquired experience in managing live projects and deploying applications to production.
- Developed a strong foundation in **AI model** development and deployment.

**HCLTech**                                                            Bengaluru
Software Engineer                                               01/2022 - 10/2022

A global IT services company

- Worked as a **.NET developer** in a **UI development team**, **debugging and resolving UI-related issues** and **deploying updates and fixes.**
- Developed knowledge of cloud technologies, particularly **Azure**, and prepared for the **Microsoft Certified: Azure Data Scientist Associate certification.**

## Education

**Bangalore University**                                               Bengaluru
Bachelor in Computer Applications | GPA: **8.06** / 10            12/2017 - 12/2020

- Member of AI committee.
- President of Cultural Activities.

## Key Achievements

**AI/ML Engineering Achievements**

Developed and deployed multiple high-impact AI models, improving operational efficiency and enhancing real-world user experience.

**AI-Driven Precision Farming: Increased Model Accuracy from 57% to 90%.**

Increased accuracy in the agricultural domain from 57% to over 90%, helping farmers determine necessary action plans for optimal crop cultivation—from seeding and soil maintenance to harvest.

**Fine-Tuned LLaMA & GAN Models for High-Accuracy AI in Banking and Finance.**

Improved the accuracy of field extraction—such as date, account number, total amount, and beneficiary name—by leveraging a GAN model to remove obstructive boxes. Additionally, fine-tuned LLaMA models to assist farmers across the USA and other countries with agricultural insights and decision-making.

## Languages

English  Native  ● ● ● ● ●

Hindi  Native  ● ● ● ● ●

Kannada  Native  ● ● ● ● ●

## Interests

**Artificial Intelligence**

**Blogging on GenAI**

**Team Mangement**