

# OMKAR WAZULKAR

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## SUMMARY

Python Developer experienced in software development, agentic AI workflow engineering using OpenAI Agents SDK and Google ADK, and building scalable ML pipelines and cloud-native applications. Skilled in MCP-based agentic systems, LLM fine-tuning, and high-performance model deployment. Recently completed an MSc in Artificial Intelligence and seeking a AI/ML Engineer role to apply these capabilities in production environments.

## EDUCATION

**Master of Advanced Computer Science:** AI, University of Manchester  
**Bachelor of Computer Science,** University of Pune

2022 - 2023  
2015 - 2019

## SKILLS

<b>Languages</b>	Python, JavaScript, TypeScript, Bash, SQL
<b>Full-Stack</b>	React.js, Next.js, Node.js, Express.js, FastAPI, Flask, TailwindCSS, Vite, HTML, CSS3
<b>GenAI &amp; ML</b>	PyTorch, LLMs, Fine-Tuning (Gemma/LLama), PEFT, QLoRA, Transformers, Pinecone
<b>DevOps &amp; CI/CD</b>	MCP, Agentic AI, OpenAI, Claude, LangChain, Hugging Face, Prompt Engineering, Docker, Kubernetes, GitHub Actions, CodePipeline, Cloud Build, CI/CD Pipeline
<b>Cloud</b>	AWS EC2, Lambda, ECS, ECR, SageMaker, CloudFormation, GCP Vertex AI, BigQuery

## PROJECTS

### AICodeOps – Agentic AI Code Developer & Deployer

- Reduced code generation and infra provisioning time by 80% by building a FastMCP server with a TypeScript MCP client enabling Claude to generate codebases, scaffold apps, and manage files autonomously through natural language.
- Implemented agentic CI/CD automation where LLM-triggered workflows executed Docker Build → GitHub Actions → AWS ECR/ECS, reducing deployment time by 50% and cutting manual DevOps effort by 35%.
- Designed an AI Developer + DevOps agent capable of end-to-end code generation, infrastructure provisioning, and autonomous cloud deployment via natural-language prompts.

### Agentic Travel Planner App

- Developed an agentic LLM-powered travel planner using OpenAI APIs, RAG pipelines, and a fine-tuned BERT intent classifier to generate context-aware itineraries for flights, hotels, and attractions.
- Built a full-stack platform with a Next.js (TypeScript) frontend and FastAPI backend, exposing model inference and retrieval workflows via API endpoints.
- Automated CI/CD using GitHub Actions and AWS CodePipeline with containerized deployment (Docker → ECR → ECS) and infrastructure provisioned via CloudFormation for scalable releases.

### Bhagavad Gita Knowledge Assistant (OpenAI + RAG + LangChain)

- Built a scalable Retrieval-Augmented Generation (RAG) pipeline using LangChain for contextual Q/A over Bhagavad Gita scripture, embedding Sanskrit verses using OpenAI and indexing in Pinecone.
- Improved answer relevance with multi-query reformulation (GPT-4o-mini), metadata filtering, and re-ranking strategies, generating concise English explanations while preserving Sanskrit context.
- Deployed serverless architecture with a Railway backend and Vercel frontend, enabling low-latency inference and public access to the RAG system.

### AI-Powered Smart Email Assistant (GPT-5)

- Built a Gmail-integrated email assistant using Google OAuth and Gmail APIs for secure inbox access, enabling real-time email fetch, thread view, and management.

- Designed intelligent one-click auto-reply generation using OpenAI LLM APIs, context-aware tone adaptation, and smart response suggestions to increase productivity.
- Developed a React-based frontend with authentication, inbox viewer, composer & AI-draft generation interface for seamless email automation.

## EXPERIENCE

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**Customer Service Agent** Oct 2023 - Nov 2025  
Adecco Manchester, UK

- Facilitated benefit reconsideration support with efficient and accurate customer handling.
- Resolved 30+ escalated inquiries weekly, achieving 95% satisfaction with an average 48-hour resolution time.
- Collaborated with internal teams to ensure compliance with processes and service guidelines.

**System Administrator** Dec 2019 – Aug 2022  
Wipro Technologies Limited Pune, IN

- Resolved 50+ IT support tickets weekly (ServiceNow), reducing resolution time by 20%.
- Managed Office 365 & SharePoint/OneDrive for 500+ users with ITIL-based incident handling.
- Administered Active Directory & Azure AD, improving access reliability and reducing downtime by 30%.
- Monitored Exchange Server performance to maintain high email system uptime.

## EXTRA-CURRICULAR ACTIVITIES

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- Maintained a personal portfolio at [omkarwazulkar.com](http://omkarwazulkar.com) showcasing my work.
- Maintain an active [Github](#) showcasing ML, LLM, RAG, Agentic AI, and cloud deployment projects with clean documentation and reproducible code.
- Contributed to the open-source community by publishing fine-tuned models [Hugging Face](#) with usage guides, licensing, eval benchmarks, and inference-ready APIs.