

Swapnil Gupta *Gen AI Developer | Computer Vision*

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SKILLS

Computer Vision & AI/ML — OpenCV, CNN, Deep Learning, Pytorch, matplotlib, PIL, MLOps, Spatial Computing, Apple Vision Pro- XR/AR, CoreML, ARKit, RealityKit

Gen AI and RAG Chatbots — Deep Learning, MLOps, LLM fine-tuning, RAG, NLP (NLTK/Transformers)

Full Stack Development and ios development — Python, FastAPI, Javascript, React/Nextjs, Docker, CI/CD pipelines(jenkins), SwiftUI

Cross-functional Collaboration — Aligning Engineering(Frontend, Backend and AI) and Go to market strategies, Data-Driven Decision Making, customer and stakeholder feedback

WORK EXPERIENCE

Gen AI Consultant - RAG and Computer Vision, Deloitte

04/2024 – present
Mumbai, India

- Led and deployed the development of a RAG-based AI chatbot, achieving a **60% increase in customer satisfaction** and **42% faster response time** by enhancing contextual accuracy and streaming. Integrated seamlessly with Azure AI and AWS for scalable cloud deployment.
- **Enhanced chatbot with computer vision:** Enabled deep learning, visual query processing for image analysis and OCR, delivering context-aware responses to documents and user-uploaded images and intracted with Reactjs/Nextjs application.
- Managed cross-functional teams to deliver the solution on time, aligning product features with business needs and stakeholder expectations.
- Conducted user research and collaborated with stakeholders to prioritize features, resulting in a 25% increase in user engagement.
- Utilized agile methodologies and cloud native technologies to refine product backlog and ensure continuous improvement in chatbot accuracy and relevance.

Team Lead - Full Stack Development, Mckinley

09/2023 – 03/2024
South Korea

- **Developed and deployed** end-to-end applications using **Spring Boot (backend), React (frontend), AWS (cloud services), and Jenkins (CI/CD)** to ensure seamless integration and scalability.
- **Automated deployments** with Jenkins pipelines and ECS, reducing **deployment time by 40%** and enabling a **50% increase in concurrent users and faster operations**
- Add cloud based computer vision models pipeline that can handle resume scanning, document and data scanning from different file formats, reducing manual data entry efforts by 65%.
- **Led a cross-functional team** in developing a **React Native mobile app** alongside a **web application**, increasing **user adoption by 20% more**.
- Improved development efficiency by 15% through effective sprint management and retrospectives.
- Implemented key features like notifications, UI enhancements, and AWS integration, driving seamless user experiences and published on playstore.
- Engaged with clients to deliver tailored solutions, boosting satisfaction by 30%.

Programmer Analyst | Full Stack & Microservices, Cognizant

08/2021 – 08/2023
Pune, India

- Developed and worked with MVC architecture and microservices architecture in Spring Boot, integrating REST APIs with React applications.
- Managed **CI/CD pipelines** using Jenkins for automated deployment and Docker for containerization successfully deploying on **Azure Cloud**, cutting deployment time by **40%**.
- Implemented **JWT authentication** and **Spring Security** in Spring Boot applications.
- Facilitated communication between developers and stakeholders, ensuring technical specifications aligned with business requirements.

PROJECTS

ResumeLens, *AI-Powered Resume Scanner & Job Recommendation System*

an AI-driven resume scanner and job recommendation system using **computer vision**, **OCR**, and **open-source LLMs**. Integrated **Tesseract OCR** and **OpenCV** for document processing, **spaCy** and **LLM-based embeddings (BERT, LLaMA)** for skill extraction, and **semantic search** for job matching. Built a **FastAPI backend** for scalable AI inference and a **Next.js frontend** for an interactive experience. Optimized performance with **async processing and caching**, enabling seamless large-scale resume parsing and job recommendations

Apple Vision Pro Product Management Mini Project,

Role: Product Manager | Tools: Apple Vision Pro, AI Integration, LMS Systems

- Developed use cases for **Apple Vision Pro** in interior design and LMS, integrating AI for immersive experiences and personalized learning.
- Collaborated with teams to build product mockups and present proposals for AI-driven design tools and virtual classrooms.
- Added Virtual Environment and assets for Immersive life like experience

RAG-Based AI Chatbot Development, *Product Manager | Tools: Gen AI, RAG, Azure Cognitive Services, Flask*

- Led the development of a **RAG-based AI chatbot**, improving customer service by 60% through enhanced contextual accuracy.
- Defined and executed the product roadmap, prioritizing dynamic interaction history and cloud integration.
- Managed cross-functional teams to deliver the solution on schedule, driving a 25% increase in user engagement.

Home2hospital, *Collaborative Platform for Government and Helpers | React, React Native, Firebase*

A React web portal, mission to connect and help the people and government on the single platform while pandemic.

Lockdown Hackathon Winner.

Saved 300+ lives, 1000+ volunteers, 5+ colleges.

Complementary App Available on Google Play Store.

CoreML on VisionOS, *ML Models in VisionOS*

- *Converted PyTorch models to CoreML format, reducing inference time by 30% using quantization.*
- *Trained a custom model for real-time object detection in a VisionOS app.*

EDUCATION

Continuous Skill Development | Cognizant Academy, Pune | 09/2021 - 11/2021

Bachelor of Technology | Madan Mohan Malaviya University of Technology Gorakhpur | 77% | 07/2018 - 08/2021

Diploma In Electrical Engineering | Government Polytechnic Deoria | 78% | 08/2015 - 07/2018

ACHIVEMENTS

AI-102 Microsoft Certified: Azure AI Engineer Associate, 2025

Project Featured in USI Startegy rewards and recognitions, *Deloitte*

Chatbot is featured in major News Media and by Goverment of Africa, *Deloitte*

Secured First Rank in Innovation Challenge, *by University Innovation cell*

Lockdown Hackathon winner, *for Home2Hospital application*

Active Participation in Microsoft powered cloud hackathon, *built application social plant, Cognizant*

REFERENCES

Dawn Wilson, *Product Manager*, Angel Heart Creative Design
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Akshay Srivastav, *CEO and Cofounder*, LCB Fertilizers
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Praveen Billa, *Sr Java Developer*
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