

Abhishek Vishwakarma

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WORK EXPERIENCE

[Anvex AI](#)

Jul 2025 – Present

Generative AI Engineer, Full-time, Onsite

Vashi, India

- Developed **AVA**, a RAG-powered internal chatbot that retrieves company policy information using **LangChain/LangGraph** for query routing, **Quadrant** vector store, and **SambaNova Llama-4-Maverick-17B-128E-Instruct**.
- Engineered **Form2Dial**, an automated survey calling system that converts a form into a call-driven questionnaire and logs responses into Excel using **FastAPI**, **SambaNova Llama-4-Maverick-17B-128E-Instruct**, and the **VAPI SDK** with dynamic query injection.
- Built a **sentiment-analysis pipeline** that reduced manual BA review time by **60%**, generating call transcripts via **Sarvam Speech-to-Text** and classifying sentiment with a **classical ML model**.
- Contributed to **Anvex Voice**, a telephony-integrated conversational AI platform using **Twilio/Plivo**, **STT**, **LLM**, and **TTS**, including a **RAG-assistant module** for document-grounded responses during live calls.
- Fine-tuned **LLM** and **TTS** models on custom datasets for domain-specific adaptation and performance improvements.

[Eklavya.Me](#)

Aug 2024 – Mar 2025

Artificial Intelligence (AI) - Internship, Remote

Goa, India

- Built **EkAI**, an AI video creation system automating outline, script, voiceover, and presentation with **OpenAI + CrewAI**.
- Developed **EkaIComic** and **CodeEkAI**, enabling automated comic generation and AI-powered coding course creation using **agent workflows and diffusion models**.
- Created scalable **FastAPI microservices** for all agents and collaborated with the web team for seamless integration.
- Improved platform stability through manual testing, error logging, and optimized agent pipelines.

PROJECTS

- ContextualDoc**: (Jul 2024 - Aug 2024) Developed a document querying system that allows users to upload PDFs, DOCX, and TXT files and ask context-aware questions. Implemented text extraction from multiple document formats using libraries like PyPDF2 and python-docx. Built a vector store with FAISS and integrated Google Gemini for fast, accurate responses based on document content.
- Food vision**: (Jan 2024 - Mar 2024) Built a food classification model with Vision Transformer fine-tuned on Food101 dataset to recognize diverse food items. Integrated Spoonacular API for nutritional info, recipes, and cooking guidance, and Serpai for fetching nearby restaurants. Added an interactive chatbot with LangChain and Gemini LLM for personalized food recommendations.
- Plant Leaf Disease Detection**: (Apr 2023 - Oct 2023) Designed and implemented an innovative Leaf Disease Detection System using PyTorch for machine learning and web development technologies. Developed a robust model leveraging deep learning techniques to accurately identify and classify various plant diseases based on leaf images. The project seamlessly integrates both backend and frontend components, providing a user-friendly web interface for efficient disease diagnosis.

EDUCATION

New Horizon Institute Of Technology & Management

2021 - 2025

Bachelor of Engineering (B.E), Artificial Intelligence And Data Science

CGPA: 9.20/10

Bhavan's College

2020 - 2021

Senior Secondary (XII), MSBSHSE, Science

Percentage: 85.71%

SKILLS

- Python, Flask, Django, FastAPI, Streamlit, Scikit-Learn, PyTorch, Transformers, Computer Vision, LLMs, LangChain, CrewAI, Prompt Engineering, Matplotlib, Seaborn, MySQL, MongoDB, Pinecone, Git, Docker, AWS, E2E, Unsloth, Vllm, Ollama

CERTIFICATIONS & ACHIEVEMENTS

Certifications:

- Generative AI LLMs**, DeepLearning.AI, AWS
- MySQL Database Mastery**, udemy
- PyTorch DL Bootcamp**, udemy
- Python Programming**, udemy

Achievements:

- Fine-Tuning 24hr Challenge**, LabLab AI: Secured first place
- Department Topper**: Ranked 1st for semesters 1-5