

SACHIN TUPSAMUNDAR

Artificial Intelligence Engineer

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PROFILE

Artificial Intelligence Engineer with **Mathematical** skills and **2+ years** of hands-on experience in **designing, developing, and deploying** cutting edge AI solutions. Expertise in **Generative AI, Agentic AI, LLMs, AI frameworks, and MLOps/LLMOps** practices, consistently delivering scalable and impactful applications. Adept at **fine-tuning** models, implementing **RAG** systems with **Vector Databases**, and developing **autonomous agents** to solve **complex business challenges** and drive measurable improvements in efficiency and user engagement. Seeking to leverage **advanced GenAI** capabilities to contribute to ground breaking projects and achieve significant organizational growth.

EDUCATION

D. Y. Patil College of Engineering Akurdi, Pune
CGPA - 8.4

2019 – 2023

PROFESSIONAL EXPERIENCE

Jr. Artificial Intelligence Engineer
08/2023 - 03/2025

Dolf Technologies Pvt. Ltd

- Engineered a **multi-modal generative AI application** that acts as a personalized fitness coach, generating dynamic workout plans and nutrition advice based on user goals.
- Implemented a custom **LLM** for exercise suggestions, diet plans, exercise tracking, and meal calories calculation.
- Developed the user interface with **Streamlit** for a seamless, interactive experience and used **Prompt Engineering** to create engaging and motivational conversational flows.
- Managed end-to-end project lifecycle while collaborating with cross-functional teams including UI designers and backend developers; facilitated weekly sprint reviews and code walkthroughs using **Jira** and **GitHub**.
- Integrated a **multi-modal AI** component that processes user-uploaded photos to track workout progress and generate personalized visual feedback.
- Employed **LangGraph** to design and orchestrate complex agentic workflows for personalized coaching, ensuring the agent adapts its recommendations in real-time based on user activity and feedback.
- Built and deployed a **YOLO-based Computer Vision pipeline** that achieved **92%** accuracy in form detection and led to a **25%** increase in user engagement and workout completion rates.
- **Technologies Used:** Multi-modal AI, LLM, Computer Vision, Streamlit, Prompt Engineering, LangGraph, MLOps, MLflow, GCP, Git/GitHub.

Artificial Intelligence Engineer
04/2025 - Present

Dolf Technologies Pvt. Ltd

- Developed a conversational **Agentic AI** system that **automates** the initial screening of resumes and applicant questions, reducing recruiter time spent on manual review by **30%**.
- Collaborated with **NLP engineers** to build a RAG pipeline using **LangChain** and **Pinecone** that extracted context-aware candidate insights, improving recruiter satisfaction scores by **20%**.
- Utilized **Fine-tuning (LoRA)** on a **Google Gemini** model to create a domain-specific agent that provides precise and relevant insights on candidate qualifications and interview performance.
- Deployed the agent as a scalable microservice using **Docker** and hosted it on **AWS**, ensuring high availability and seamless integration with existing HR platforms.
- Designed a feedback loop using active learning that improved model precision from **84% to 96%** over three months based on recruiter-approved labels and updated resumes.
- Designed and built a **front-end** interface using **Streamlit** to provide recruiters with a user-friendly dashboard for managing the agent and reviewing candidate summaries.
- **Technologies Used:** Agentic AI, LLMs, RAG, LangChain, Langgraph, Pinecone, LoRA, Google Gemini, Docker, AWS, Git/GitHub.

SKILLS

- **Programming Languages:** Python, SQL.
- **Libraries:** Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, PyTorch, Keras.
- **Machine Learning:** Supervised and unsupervised learning.
- **Deep Learning:** Artificial Neural Network(ANN), Recurrent Neural Networks (RNN), Convolutional Neural Networks (CNN).
- **Natural Language Processing (NLP):** Text Preprocessing, RNN, LSTM RNN, Encoders, Decoders, Transformer, BERT, GPT.
- **Computer Vision:** Image Segmentation, Image Classification, Object Detection.
- **AI Frameworks:** Langchain, Huggingface, LangGraph, Agno, CrewAI, n8n, Autogen.
- **LLMs :** Google Gemini, Openai chatgpt, Llama, Mistral, Groq AI.
- **Techniques:** Fine-tuning (LoRA, QLoRA), PEFT, Prompt Engineering, Retrieval-Augmented Generation(RAG), Agentic AI, Multi-modal AI, RLHF.
- **MLOps & Deployment:** Docker, Kubernetes, MLflow, AWS Sagemaker, Google Cloud Vertex AI, Azure Machine Learning, FastAPI.
- **Cloud Platforms:** Streamlit, AWS, Google Cloud Platform, Microsoft Azure.
- **Databases:** SQL, Vector Databases (Pinecone, ChromaDB).
- **Version Control:** Git, GitHub, GitLab.
- **Tools & Methodologies:** Google Colab, Jupyter Notebooks, VS Code, Agile, Jira, CI/CD.

CERTIFICATE

- Complete **Generative AI** With **Langchain** and **Huggingface**
- Complete **Agentic AI** With **LangGraph** and **Langchain**
- Building **AI Agents** And **Agentic AI** System With **Microsoft Autogen**