Abhishek Palve

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Summary

B.E. Computer Science graduate with expertise in Machine Learning, Deep Learning, and Generative AI. Seeking an AI/ML Engineer role to develop scalable, intelligent systems.

Skills

Programming: Python (OOP), SQL
Data Analysis: Pandas, NumPy, Matplotlib, Seaborn, Plotly
Machine Learning: Scikit-learn, Regression, Classification, Clustering, Model Evaluation, Hyperparameter Tuning
Deep Learning: TensorFlow, Keras, PyTorch, CNNs, RNNs, LSTMs, Transfer Learning, Attention Mechanisms
Generative AI: LangChain, LangGraph, LangSmith, Prompt Engineering, RAG, Hugging Face Transformers, OpenAI API, Google Gemini API, Vector Databases (Pinecone, FAISS, Weaviate), LLM Fine-tuning
Tools: Git, GitHub, Jupyter, Colab, VS Code, Streamlit, Docker, FastAPI, Flask
Soft Skills: Team Collaboration, Problem Solving, Communication, Adaptability

Work Experience

Intern at NeelSindhu Industry Dec 2023 - Jan 2024

Developed a Python and OpenCV-based facial attendance system captures employee attendance and automatically logs it to an Excel sheet in real-time.

Projects

- **LangGraph-Powered Conversational AI Chatbot with Streamlit** [GitHub][LIVE DEMO]
  - Built an AI chatbot using **LangGraph** and **Google Generative AI (Gemini 2.5)** with memory management through `InMemorySaver`.
  - Developed a **Streamlit interface** with **multi-threaded conversation support** and real-time **streaming responses** for an interactive user experience and Designed a scalable backend–frontend architecture.
- **Skin Cancer Detection For Early Intervention Using Deep Learning.** [GitHub][LIVE DEMO]
  - Built a skin lesion classification system using **Python** and **Xception CNN** trained on the **HAM10000 dataset** to identify 7 lesion types with **89% accuracy**.
  - Designed a user-friendly interface enabling **image upload, segmentation, prediction, and downloadable PDF reports** for clinical support and patient prioritization.
- **Content-Based Movie Recommender System using Cosine Similarity** [GitHub][LIVE DEMO]
  - Built a personalized movie recommender system using content-based filtering and **cosine similarity**. Analyzed movie metadata like genres, cast, and directors to recommend similar movies based on user input.

Education

2022 - 2025	B.E. CSE at **Guru Gobind Singh College of Engineering**	(7.29 CGPA)
2019 - 2022	Computer Science Diploma at **Guru Gobind Singh,Polytechnic,Nashik**	(86.29%)
2018	SSC at Janata Vidhyala,Pavannagar	(86%)

Activities

- Participated in **District Level Project Competition**.
- Completed Industry Internship Program on **AI and Data Science** at Sandip University, Nashik.
- Accomplished **Google AI-ML Virtual Internship Program**.
- Participated in "**Impetus and Concepts 2025**," an International Level Technical Event at **Pune Institute of Computer Technology**.