

Varad Pensalwar

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SUMMARY


AI/ML undergraduate with expertise in developing AI-powered applications, voice assistants, and workflow automation using OpenAI APIs, LangChain, and Firebase. Proficient in deploying scalable solutions with Streamlit and vector databases. Demonstrated ability to create practical, user-centric solutions to enhance operational efficiency.

EDUCATION

2021-2025 Sanjay Ghodawat University
Bachelor of Technology in Artificial Intelligence and Machine Learning

2019-2021 Janta Junior College, Naigoan
Higher Secondary School

TECHNICAL PROJECTS

Sep 2024 - DocMind 

Nov 2024 *An AI-powered PDF information retrieval system*

- DocMind is an AI-powered tool that lets you upload PDFs and ask questions about their content through a simple web interface. It extracts text from each page using PyPDF2, splits the content into 1000-character chunks, and enables semantic search.
- The backend integrates LangChain and Anthropic Claude APIs to enable conversational question answering.

Technologies: Python, LangChain, OpenAI APIs, Streamlit.

Dec 2024 - HealthAI-Assistant 

Feb 2025 *An AI-powered personal health advisor*

- HealthAI-Assistant is a web application that processes medical PDFs into 500-character chunks, generates embeddings using Hugging Face's "all-MiniLM-L6-v2" model, and stores them in Pinecone for semantic search.
- The system supports PDF ingestion and scalable semantic search, making it effective for extracting information from complex medical documents with OpenAI's language model.

Technologies: Python, LangChain, OpenAI APIs, Pinecone, PyPDF

Mar 2025 - VaradGPT 🗣️

Jun 2025 *An AI-powered Telegram ChatBot*

- VaradGPT Bot is a Telegram chatbot using python, aiogram, OpenAI GPT, and Whisper that processes text and voice queries with session tracking and streamlined command functionality.
- The bot additionally serves as a digital portfolio for creator Varad Pensalwar, providing access to his resume, projects, skills, and contact information, demonstrating expertise in chatbot development and creative personal marketing strategies.

Technologies: Python, Aiogram, OpenAI APIs, Whisper

SKILLS

Programming Languages

Python: High-level programming language for general-purpose coding and data science.

SQL: Language for managing and querying relational databases.

Libraries

Hugging Face: Library for state-of-the-art natural language processing.

OpenAI: Platform for advanced AI models and APIs.

Anthropic: AI research company focused on language models.

LangChain: Framework for developing applications with language models.

Numpy: Library for numerical computing with Python.

Pandas: Data analysis and manipulation library for Python.

Vector Databases

FAISS: Library for efficient similarity search and clustering of dense vectors.

Pinecone: Managed vector database for large-scale similarity search.

Tools

n8n: Workflow automation tool for integrating different services.

ElevenLabs: Platform for AI-powered voice synthesis.

Cursor: Tool for efficient code navigation and editing.

Web Development

Vibe Coder

Interests

- Chess
- Carrom
- Cricket

Professional Profiles

LinkedIn linkedin.com/in/varadpensalwar

Twitter x.com/PensalwarVarad

GitHub github.com/Varadpensalwar