

# 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 FastAPI, and experienced in semantic search and vector databases. Demonstrated ability to create practical, user-centric solutions to enhance operational efficiency.

## EDUCATION

### Sanjay Ghodawat University

Bachelor of Technology in Artificial Intelligence and Machine Learning

Sep 2021 - Aug 2025

CGPA: 7.25/10.00

### Janta Junior College, Naigoan

Higher Secondary School

Apr 2021

Grade: 85.00%

## SKILLS

Languages: Python, SQL

data manipulation and Visualization Libraries: Numpy, Pandas, Matplotlib, Seaborn

Deep Learning and Machine Learning Frameworks: TensorFlow, PyTorch, Scikit-learn

Analytical Tools: Power BI, Microsoft Excel

AI Tools: Cursor AI, N8N, OpenAI SDK, Elevenlabs

## TECHNICAL PROJECTS

### Diwali Sales Analysis

Tools: Python, Numpy, Pandas, Matplotlib, Seaborn



- Diwali Sales Data Analysis involved analyzing Diwali sales data to identify customer purchasing trends and provide data-driven insights for business improvement. I used Pandas for data cleaning and preprocessing, including handling missing values, removing irrelevant columns, and formatting data types for accurate analysis. Exploratory Data Analysis (EDA) was performed using Matplotlib and Seaborn to visualize sales patterns across different demographics such as gender, age group, state, and occupation.
- The analysis revealed that female customers aged 26–35 contributed the highest sales, with major orders coming from Uttar Pradesh, Maharashtra, and Karnataka. These insights highlighted key customer segments and purchasing behaviors during the festive season. The project strengthened my skills in Python-based data analysis, visualization, and deriving actionable insights to support marketing and business strategies.

### Music Store Analysis

Tools: SQL, VS Code (SQL Extension)



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### VaradGPT Bot: AI-powered Telegram bot

Tools: Python, aiogram, OpenAI API, Whisper



- VaradGPT Bot is a modular Telegram chatbot built with Python and aiogram, leveraging OpenAI's GPT 4.1 mini for natural language conversations and supporting voice-to-text transcription via Whisper. It processes both text and voice queries, tracks user interactions in memory per session, and provides streamlined commands for help, project information, and resume access.
- A key feature of the VaradGPT Bot is its ability to deliver comprehensive information about its creator, Varad Pensalwar. Users can access his resume, explore project highlights, and obtain details about his skills, experience, and contact information, including links to his website and professional profiles, making the bot both an intelligent assistant and a dynamic personal portfolio.

## EXTRA-CURRICULARS

Completed 80 hours of NSS community work and mentioned for exemplary volunteering.

Created an AI assistant leveraging n8n, OpenAI, DeepSeek, SerpApi, ElevenLabs, and automation.



Crafted a reel-like video feature using Anthropic's Claude in under 5 minutes. [Demo](#)

## CERTIFICATIONS

Complete 2025 Python Bootcamp: Learn Python from Scratch



Introduction to Generative AI

