

# Harsh Damodar Pandit

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## SUMMARY

Results-driven Computer Science student at VIT Bhopal specializing in Machine Learning and Data Science. Skilled in Python, TensorFlow, and Scikit-learn to develop intelligent models and data-driven insights. Experienced in generative AI and vector embeddings with a strong focus on solving real-world challenges through AI and data-driven insights.

## TECHNICAL SKILLS

**Programming Languages:** Python, C++, SQL

**Machine Learning & AI:** TensorFlow, PyTorch, Keras, Scikit learn, NumPy, Pandas, Matplotlib, Seaborn, OpenCV, LangChain

**Databases:** MySQL, PostgreSQL

**Tools & Platforms:** Git, GitHub, Jupyter Notebook, REST APIs, VS Code, Google Colab

## PROJECTS

### Video Anomaly Detection

April 2025 – Present

*Machine Learning Project*

*Python, Random Forest, OpenCV*

- Developed a Machine learning based anomaly detection system for video surveillance, processing over 10,000 video frames.
- Trained a custom model to identify unusual patterns in video frames using OpenCV and Python.
- Trained Random Forest model to identify unusual patterns with 92% detection accuracy, reducing manual monitoring effort by 70%.

### GenAI Document Q&A Assistant

May 2025

*Generative AI Project*

*LangChain, Gemini API, Vector Database*

- Developed a Generative AI system that allows users to upload documents and ask questions in natural language.
- Converted document text into vector embeddings and stored them in a vector database for fast retrieval.
- Leveraged LangChain and Gemini API to generate accurate, context-aware answers from documents.

## EXPERIENCE

### Agent Developer

Aug 2025

*NASSCOM & Gnani.ai*

- Developed a Consumer Durables AI Agent using Inya.ai to handle service requests and installations for appliances such as AC, Washing Machine, Refrigerator, Water Purifier, and TV.
- Designed an intelligent agent capable of answering queries, recommending products, and handling end-to-end customer requests.
- Integrated AI workflows for text and voice-based queries, enhancing user engagement.
- Recognized as Top Finalist among 5,700+ participants for designing a scalable, intelligent, and solution-oriented AI agent.

## EDUCATION

### VIT BHOPAL

BHOPAL, MP

*B TECH. in Computer Science, Artificial Intelligence and Machine Learning*

*SEP 2023 – May 2027*

## CERTIFICATIONS

- Google Cloud Generative AI
- NPTEL Cloud Computing