NATHAN PIMENTA

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SUMMARY

AI-ML developer and Hackathon Enthusiast specializing in real-time AI solutions and intelligent automation.Having Experience in Python,Chroma DB,FAISS,procedural content generation, and emotion recognition for applications ranging from AI-powered marketing, fantasy media, smart lending, and local retail discovery to innovative gaming experiences.Passionate about pushing the boundaries of AI, blending technology with creativity, and crafting innovative ideas to life.

TECHNICAL SKILLS

AI/ML: Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Flask, OpenCV, Chroma, FAISS, Pinecone, AudioLDM2, Stable Diffusion

Tools: Git, Firebase, MoviePy, Godot, Unity, Blender, Festival, FAISS, Annoy

Programming: Python, Java, JavaScript, SQL

Frameworks/Platforms: FastAPI, Flask, Gradio

Certifications: AICTE-Altair Data Science Virtual Internship 2024

ACADEMIC PROJECTS

ZenithMind - AI-Powered Mental Health Companion   *Github*

A cross-platform mental health app offering aid in mental health, mood tracking, and wellness support through an AI chatbot.Combines conversational AI with vector search and emotional intelligence to provide personalized mental health insights.

- Used Pinecone with cosine similarity search on a custom vector database built from 5 health-focused books to deliver context-aware, supportive responses.

PromptTales - A visual story generator   *Github*

An end-to-end system that transforms user prompts into immersive multimedia stories by combining AI-generated text, images, and audio.

- Developed the complete codebase integrating Gemini outputs, Stable Diffusion v1.5 (using existing weights), and automated image generation workflows.
- Designed and implemented a custom audio retrieval system using FAISS, enabling semantic sound matching through metadata-based similarity.

AWARDS

Teknack 2024, ACM DBIT: *Best UI Award*   *Playstore*

- Developed RINA, an interactive retro-style puzzle game focused on mind-bending level inversion mechanics and minimalist gameplay.

Codeverse Hackathon 2025, DBIT: *2nd Place*   *Github*

- A comprehensive platform for learning and mastering coding skills through interactive modules, coding challenges, and competitive programming. Worked on developing a low code now code feature along with story mode feature and contibuting in the competitive programming feature.

Idea Hackathon 2025, KJSIT by Union Bank: *Top 10 and Award for Promising and Adaptive Team*   *Github*

- Developed VyomVision a web app that facilitates facial authentication and multilingual voice assisstant with query handling and query resolving. Automated service ticket generation and further classification to appropriate departments of bank. Also implemented query resolution.

EDUCATION

B.E. Computer Engineering   Graduating May 2026
Mumbai University   8.43 GPA
Don Bosco Institute of Technology
Relevant coursework: DSA, Computer Networks, DBMS, OS, Cybersecurity, Data Science