

# PUNYATA GUPTA

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## EDUCATION

### VIT Bhopal University

Bachelor of Technology

Major in Computer Science; Minors in Artificial Intelligence and Machine Learning

Cumulative GPA: 8.84/10

Bhopal, Madhya Pradesh

Expected September 2026

## TECHNICAL SKILLS

**Languages and Database:** Python, Java, SQL, HTML, CSS, FAISS/Chroma DB, Kotlin

**Technologies:** Machine Learning and Deep Learning (TensorFlow, PyTorch, CNNs, RNNs, Keras), Computer Vision (OpenCV, YOLO), NLP (LLM APIs, RAG, LangChain), Streamlit, REST APIs, Flask

## WORK EXPERIENCE

### DEXIAN INDIA TECHNOLOGIES PVT. LTD

AI Intern

Remote - Chennai

Feb 2025 - May 2025

- Developed a multilingual RAG-based Q&A system for plant disease diagnosis using LLMs and used 10 document retrieval.
- Trained a CNN model with 88% accuracy for image-based plant disease classification
- Integrated semantic search with FAISS/Chroma and optimized LLM prompts (5+) for relevant, low-latency responses.

## PROJECTS

### AI-POWERED COMPUTER FUNDAMENTALS TUTOR ([link](#))

April 2025 - May 2025

- Designed and engineered an AI tutor platform to help students learn Computer Fundamentals in an interactive and personalized way with user personalization up to 90%.
- Integrated Google Gemini API(1 call) to provide exam-style answers, detailed explanations, and automatic topic summaries.
- Implemented a real-time answer evaluation system that compares student responses with model solutions and provides personalized feedback with 95% accuracy.
- Added MCQ progress tracking to monitor performance and mastery level across selected subtopics with 5 other ways.
- Built the UI using Streamlit, and managed backend logic using Python and text similarity techniques, addressing over 10 different use cases.

### MEDIBOT - AI-POWERED HEALTH CHATBOT ([link](#))

Feb 2025 - March 2025

- Created MediBot, a conversational health assistant supporting multilingual interaction (English/Hindi) using text, voice, and image inputs 2 more language support to be implemented.
- Used Google Gemini API (1 call) for generating conversational responses and providing basic health guidance.
- Integrated a CNN-based skin disease classification model with ~86% accuracy, enabling image-based diagnosis and recommendations.
- Enabled voice interaction by integrating speech-to-text and text-to-speech APIs (2 calls) for a natural user experience.
- Combined Conversational AI with Computer Vision in a single app interface using Streamlit, enhancing accessibility for non-technical users for multi-platform support, addressing over 15 different use cases.

## EXTRACURRICULAR

### Advitya Techno-Cultural Festival, VIT Bhopal

Feb 2025 & Feb 2024

- Hosted over 20 institutional events; showcased public speaking, coordination, and on-stage crisis management.
- Organized inter-university events and led anchoring teams and resolved live event issues in real time, including 3 Advitya's

### Student Council - The Little Shri School

2018-19 and & 2017-18

- Led over 50 cultural events and edited all major school publications.

## ADDITIONAL

**Languages:** English (Fluent), Hindi (Fluent), French (Basics), Japanese (Basic)