Punyata Gupta

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Education

VIT Bhopal University, Bhopal, Madhya Pradesh
Bachelor of Technology (B.Tech) in Computer Science | Minor in Artificial Intelligence & Machine Learning
Cumulative GPA: 8.8/10 Expected Graduation: May 2026

The Little Shri School, Rohtak, Haryana
CBSE – Class XII: 92% Graduated: July 2022
CBSE – Class X: 97.4% Graduated: July 2020

Projects

MediBOT – AI-Powered Health Chatbot Feb 2025 – Apr 2025
- Developed a multilingual health chatbot using Google Gemini, supporting Hindi/English through text, voice, and image inputs.
- Integrated a CNN model to classify skin diseases with real-time diagnostic feedback with 86% accuracy
- Enabled natural voice interaction via speech-to-text and text-to-speech APIs.
- Deployed a user-friendly interface combining Conversational AI + Computer Vision for basic healthcare assistance.

Movie Recommendation System – Streamlit App Dec 2024 – Jan 2025
- Built a Python-based movie recommendation system using TMDB dataset and content-based filtering.
- Designed and deployed a Streamlit web app offering real-time, personalized recommendations.
- Leveraged cosine similarity and metadata parsing to provide relevant suggestions.

Brain Tumor Classification – Deep Learning Model Sep 2024 – Nov 2024
- Designed a tumor classification system using ResNet50 and transfer learning to categorize MRI images with 98% accuracy.
- Researched DenseNet and ensemble methods to benchmark results and enhance precision.
- Applied data augmentation, hyperparameter tuning, and fine-tuning to improve generalizability.
- Built ensemble models integrating DenseNet, ResNet, and custom CNNs to reduce bias and boost performance.

Work-Experience

Machine Learning Intern
Dexian India Technologies Pvt. Ltd. — Feb 2025 – Present
- Developed Retrieval-Augmented Generation (RAG) pipelines using LLMs with document retrieval to support agriculture-based Q&A systems.
- Fine-tuned models and integrated vector databases (FAISS, Chroma) for accurate and scalable semantic search.
- Enhanced response relevance and latency through prompt engineering and pipeline optimization.

Extracurricular

Core Member – Advitya Techno-Cultural Festival, VIT Bhopal
- Organized high-footfall inter-university events; led anchoring teams and resolved live event issues in real time

Cultural Head & Chief Editor – The Little Shri School
- Directed cultural programs and edited the annual school magazine, promoting student creativity and participation.

Anchor & Stage Manager – VIT Bhopal Events
- Hosted multiple institutional events; showcased public speaking, coordination, and on-stage crisis management.

ADDITIONAL

TECHNICAL SKILLS
Python, Machine Learning, Data Visualization, Data Analysis, Computer Vision, YOLO, Android Development, SQL, C++, MS PowerPoint, MS Excel

LANGUAGES
English (Fluent), Hindi (Fluent)

CERTIFICATIONS
- Supervised Machine Learning: Regression & Classification – Coursera (May 2023)
- Advanced Learning Algorithms – Coursera (Aug 2023)
- Android 14 & Kotlin Development Masterclass (Sept 2024)
- Data Science with Teachnook (Cognizance'24) – July 2024