Punyata Gupta

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Education

VIT Bhopal University   Bhopal, Madhya Pradesh
BTech   Expected May 2026
Major in Computer Science; Minors in Artificial Intelligence and Machine Learning
Cumulative GPA: 8.8/10

12th Standard
The Little Shri   Rohtak, Haryana
CBSE Cumulative Percentage: 92   Jul 2022

10th Standard
The Little Shri   Rohtak, Haryana
CBSE Cumulative Percentage: 97.4   Jul 2020

Projects

Object Detection, Gender Classification, and Recognition   Aug 2023 – Oct 2023
● Developed a real-time object detection, gender classification, and gender recognition system leveraging YOLO (You Only Look Once) and advanced computer vision techniques.
● Improved accuracy through data preprocessing, augmentation, and fine-tuning for diverse scenarios.
● Implemented scalable, real-time pipelines optimized for real-world applications
Movie Recommendation System   Dec 2024 – Jan 2025
● Built a Python-based movie recommender using TMDB data and content-based filtering.
● Developed and deployed a Streamlit web app for personalized movie suggestions with a user-friendly interface.
● The system provides tailored recommendations by analyzing textual metadata, leveraging pre-trained similarity matrices, and integrating efficient data processing techniques.
Brain Tumour Classification   Sept 2024 – Nov 2024
● Designed a deep learning-based brain tumour classification system using ResNet50, leveraging its transfer learning capabilities to classify MRI images into tumour categories with high precision.
● Conducted a comprehensive literature review on cutting-edge techniques, including Dense Net architectures and ensemble learning models, to explore their effectiveness in brain tumour detection.
● Enhanced model performance by employing techniques like data augmentation, fine-tuning, and hyperparameter optimization to improve classification accuracy across diverse datasets.
● Integrated ensemble models combining Dense Net, Reset, and custom CNN architectures, significantly boosting predictive reliability and reducing model bias.

Work-Experience

Machine Learning Intern (Feb 2025 - present)
● Working on RAG models to improve agri-related Q&A by combining language models with document retrieval. Involved in fine-tuning, semantic search, and vector database integration.

Extracurricular

Anchoring & Stage Management, VIT Bhopal
● Successfully anchored and managed events, demonstrating strong public speaking and organizational skills.
Cultural Leadership & Editorial Roles, The Little Shri
● Directed cultural activities as the Cultural Head and contributed to the school magazine as Chief Editor.

Activities

Core Member, Advitya Inter-University Techno-Cultural Festival
● Planned and executed inter-university events, ensuring high-quality experiences.
● Coordinated and led anchoring for college fests, managing event schedules and issue resolution in real-time.

ADDITIONAL

Technical Skills: Python, Machine Learning, Data Visualization, Data Analysis, Computer Vision, YOLO , Android Development, SQL, C++, PowerPoint, Excel

Languages: Fluent in Hindi, English

Certifications & Training: Supervised Machine Learning: Regression and Classification (May 2023), Advanced Learning Algorithms (Aug 2023) – Coursera, The Complete Android 14 & Kotlin Development Masterclass (Sept 2024), Data Science with Teachnook (Cognizance'24) (July 2024)