Gyan Vardhan

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EDUCATION

VIT Bhopal University, Bhopal   2022 – 2026
Bachelor of Technology in Computer Science and Engineering   ***CGPA:** 9.05*
Dhruva Public School, New Delhi   2019 – 2021
Senior Secondary (Class XII)   *86.2%*
Birla Vidya Mandir   2017 – 2019
Secondary (Class X)   *97.2%*

PROJECTS

LearnMate AI   June 2025 – Sept 2025
Python, LangChain, Hugging Face, FAISS, Gradio   *Source Code*

- Developed an AI tutor that generates topic-specific explanations and quizzes using large language models
- Implemented Retrieval-Augmented Generation (RAG) for accurate, context-aware answers
- Added conversational memory for dynamic, continuous learning sessions
- Deployed Gradio-based interface for an interactive user experience

OrbitChat – Interactive Space Learning App   Nov 2024 – Jan 2025
Flutter, Firebase, NASA APIs, Gemini API   *Source Code*

- Developed Gemini AI chatbot in Flutter/Firebase for interactive space education
- Integrated NASA APIs for real-time planetary data, news, and Mars weather updates
- Created 7 space-themed learning modules, boosting engagement among children
- Enabled offline caching with Firebase, ensuring learning access without internet

Asteroid Impact Threat Analysis   Sep 2024 – Oct 2024
Python, Pandas, Matplotlib, Scikit-Learn   *Source Code*

- Analyzed 4000+ asteroids from NSSC 2024 dataset with EDA, feature engineering, and imbalance handling
- Achieved 85.5% accuracy using tuned Random Forest with GridSearchCV and K-Fold CV
- Presented results at NSSC 2024, IIT Kharagpur, to a panel of 5 astrophysics experts
- Delivered reproducible Jupyter workflow with visualizations for hazard distribution and risk insights

TECHNICAL SKILLS

Concepts: Data Structures, OOP, Computer Networks, Operating Systems, DBMS, Machine Learning, Data Analysis
Frameworks: Flutter, Firebase, MongoDB, REST API, AWS Cloud Services, Scikit-learn, Pandas, NumPy
Programming: Java, Python, SQL

CERTIFICATIONS

Introduction to TensorFlow for AI, ML, and Deep Learning – DeepLearning.AI Certification   *Aug 2025*
Machine Learning with Python – IBM Professional Certification   *Oct 2024*
OCI Data Science Professional – Oracle Cloud Infrastructure Certification   *June 2025*
Basics of Unity and C# Development – Meta Certification   *Sept 2023*

EXTRACURRICULAR ACTIVITIES

- Shortlisted to showcase a technical project at **VIT Bhopal Industrial Conclave 2024**, held on 3rd August 2024.
- Core Team Member in Android Development Team of GDG VIT Bhopal, from December 2023
- Contributor at GirlScript Summer of Code (GSSoC) 2024 – contributed to 4 open-source repositories.
- Advanced to the second round of the **NASA Space Apps Hackathon 2024** with **OrbitChat**, a collaborative AI communication tool.
- Developed and demonstrated a data model for asteroid impact threat analysis at **NSSC 2024**, IIT Kharagpur.
- Published and presented a paper on Neuromorphic Computing at **VIVIBHA National Conference 2024**.