

# Gyan Vardhan

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## EDUCATION

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

## PROJECTS

<b>LearnMate AI</b> <i>Python, LangChain, Hugging Face, FAISS, Gradio</i>	June 2025 – Sept 2025 <a href="#">Source Code</a>
<ul style="list-style-type: none"><li>Developed an AI tutor that generates topic-specific explanations and quizzes using large language models</li><li>Implemented Retrieval-Augmented Generation (RAG) for accurate, context-aware answers</li><li>Added conversational memory for dynamic, continuous learning sessions</li><li>Deployed Gradio-based interface for an interactive user experience</li></ul>	
<b>OrbitChat – Interactive Space Learning App</b> <i>Flutter, Firebase, NASA APIs, Gemini API</i>	Nov 2024 – Jan 2025 <a href="#">Source Code</a>
<ul style="list-style-type: none"><li>Developed Gemini AI chatbot in Flutter/Firebase for interactive space education</li><li>Integrated NASA APIs for real-time planetary data, news, and Mars weather updates</li><li>Created 7 space-themed learning modules, boosting engagement among children</li><li>Enabled offline caching with Firebase, ensuring learning access without internet</li></ul>	
<b>Asteroid Impact Threat Analysis</b> <i>Python, Pandas, Matplotlib, Scikit-Learn</i>	Sep 2024 – Oct 2024 <a href="#">Source Code</a>
<ul style="list-style-type: none"><li>Analyzed 4000+ asteroids from NSSC 2024 dataset with EDA, feature engineering, and imbalance handling</li><li>Achieved 85.5% accuracy using tuned Random Forest with GridSearchCV and K-Fold CV</li><li>Presented results at NSSC 2024, IIT Kharagpur, to a panel of 5 astrophysics experts</li><li>Delivered reproducible Jupyter workflow with visualizations for hazard distribution and risk insights</li></ul>	

## 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

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