

Gyan Vardhan

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EDUCATION

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

PROJECTS

ShapeVisualizer <i>Unity ARcore Kit, C#</i>	Feb 2023 – March 2023 Source Code
<ul style="list-style-type: none">Developed an educational AR app in Unity for visualizing and interacting with 3D geometric shapes.Implemented real-time plane detection using XR Foundation for accurate 3D model placement.Designed a UI to display key geometric properties (vertices, edges, faces) for each selected model.	
OrbitChat – Interactive Space Learning App <i>Flutter, Firebase, NASA APIs, Gemini API</i>	Nov 2024 – Jan 2025 Source Code
<ul style="list-style-type: none">Developed Gemini AI chatbot in Flutter/Firebase for interactive space educationIntegrated NASA APIs for real-time planetary data, news, and Mars weather updatesCreated 7 space-themed learning modules, boosting engagement among childrenEnabled offline caching with Firebase, ensuring learning access without internet	
Asteroid Impact Threat Analysis <i>Python, Pandas, Matplotlib, Scikit-Learn</i>	Sep 2024 – Oct 2024 Source Code
<ul style="list-style-type: none">Analyzed 4000+ asteroids from NSSC 2024 dataset with EDA, feature engineering, and imbalance handlingAchieved 85.5% accuracy using tuned Random Forest with GridSearchCV and K-Fold CVPresented results at NSSC 2024, IIT Kharagpur, to a panel of 5 astrophysics expertsDelivered 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**.