

# Gyan Vardhan

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## EDUCATION

<b>VIT Bhopal University, Bhopal</b> <i>B.Tech in Computer Science &amp; Engineering</i>	2022 – 2026 9.04 CGPA
<b>Dhruva Public School, New Delhi</b> <i>Intermediate (XII)</i>	2019 – 2021 86.2 %
<b>Birla Vidya Mandir, Nainital</b> <i>High School (X)</i>	2014 – 2019 97.2 %

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C++, SQL  
**Services and Frameworks:** Flutter, Firebase, MongoDB, REST API, AWS Cloud Services  
**Core Concepts:** Data Structures, Object Oriented Programming, Computer Networks, Operating Systems, DBMS, SD

## PROJECTS

<b>ShapeVisualizer</b>   <i>Unity ARcore Kit, C#</i>	<a href="#">Source Code</a>
<ul style="list-style-type: none"><li>Created an AR app in Unity to provide basic knowledge about geometric shapes by interacting with 3D models.</li><li>Improved AR realism by 15% via plane detection and shape placement using AR Foundation.</li><li>Achieved a 30% increase in engagement with AR learning tools through optimized rendering techniques.</li></ul>	
<b>OrbitChat - Interactive Space Learning App</b>   <i>Flutter, Firebase, NASA APIs, Gemini API</i>	<a href="#">Source Code</a>
<ul style="list-style-type: none"><li>Developed a Gemini AI-powered chatbot using Flutter and Firebase for educational purposes.</li><li>Integrated multiple NASA APIs to deliver real-time data on planets, space news, and Mars weather.</li><li>Designed 7 space-themed educational modules aimed at children, making learning interactive and fun.</li></ul>	
<b>Asteroid Impact Threat Analysis</b>   <i>Python, Pandas, Matplotlib</i>	<a href="#">Source Code</a>
<ul style="list-style-type: none"><li>Classified 4000+ asteroids as hazardous or non-hazardous using a dataset from NSSC 2024, applying EDA, feature engineering, and class imbalance handling.</li><li>Achieved 85.5% accuracy using a tuned Random Forest Classifier with GridSearchCV and K-Fold cross-validation.</li><li>Presented findings at NSSC 2024, IIT Kharagpur, contributing to discussions with a panel of 5 astrophysics experts.</li></ul>	

## CERTIFICATION

<b>Unity and C# Basics</b> <i>Meta AR Developer Professional Certificate</i>
<ul style="list-style-type: none"><li>Scored 95.87%; covered Unity basics, C# scripting, and introductory AR features.</li></ul>
<b>Machine Learning with Python</b> <i>IBM Professional Certificate</i>
<ul style="list-style-type: none"><li>Learned supervised/unsupervised ML models, feature engineering, and evaluation metrics using different ML modules.</li></ul>
<b>OCI Data Science Professional</b> <i>Oracle Cloud Infrastructure</i>
<ul style="list-style-type: none"><li>Gained hands-on experience deploying ML workflows on Oracle Cloud using Python SDKs and APIs.</li></ul>

## ACHIEVEMENTS

- Shortlisted to showcase a technical project at **VIT Bhopal Industrial Conclave 2024**, held on 3rd August 2024.
- Advanced to the second round of the **NASA Space Apps Hackathon 2024** with **OrbitChat**, a collaborative AI communication tool.
- Developed and demonstrated a Python-based data model for asteroid impact threat analysis at **NSSC 2024**, IIT Kharagpur.
- Authored and delivered a research paper on **Neuromorphic Computing** at **VIVIBHA National Conference 2024**.

## EXPERIENCE

- Core Team Member in Android Development Team of GDSC VIT BHOPAL, from December 2023
- Contributor at GirlScript Summer of Code (GSSoC) 2024 – contributed to 4 open-source repositories.