

# 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

- ShapeVisualizer** | *Unity ARcore Kit, C#* [Source Code](#)
- Created an AR app in Unity to provide basic knowledge about geometric shapes by interacting with 3D models.
  - Improved AR realism by 15% via plane detection and shape placement using AR Foundation.
  - Achieved a 30% increase in engagement with AR learning tools through optimized rendering techniques.
- OrbitChat - Interactive Space Learning App** | *Flutter, Firebase, NASA APIs, Gemini API* [Source Code](#)
- Designed OrbitChat, an interactive chatbot for children, incorporating 7 space-themed educational modules.
  - Developed a responsive UI in Flutter that improved user engagement by 30%, offering an intuitive experience tailored to children's learning preferences through interactive space-themed features.
- Asteroid Impact Threat Analysis** | *Python, Pandas, Matplotlib* [Source Code](#)
- Leveraged advanced analytical techniques on asteroid datasets, classifying more than 4000 objects based on established criteria; generated actionable insights driving strategic decisions in planetary defense initiatives.
  - Shared findings in NSSC 2024 at IIT Kharagpur.
- Neuromorphic Computing: An In-Depth Exploration** | *Research Paper* [Source Code](#)
- Authored an in-depth research paper on Neuromorphic Computing, showcasing groundbreaking insights that captivated over 150 attendees at the VIVIBHA National Conference 2024 and sparked engaging discussions among experts.

## CERTIFICATION

- Unity and C# Basics**  
*Meta AR Developer Professional Certificate*
- Achieved a grade of 95.87%. A course on the use of Unity for the purpose of game making.
- Flutter & Dart - The Complete Guide**  
*Academind by Maximilian Schwarzmüller*
- A course on the use of Flutter for mobile app development.
- Machine Learning with Python**  
*IBM Professional Certificate*
- Completed a comprehensive course on machine learning using Python, including algorithms, data processing, and model evaluation.

## ACHIEVEMENTS

- Shortlisted to showcase my project at VIT Bhopal **Industrial Conclave 2024**, held on 3rd August 2024.
- Presented **OrbitChat** and advanced to the second round at the **NASA Space Apps Hackathon 2024**.
- Delivered comprehensive research findings on asteroid impact threats during **NSSC 2024** at **IIT Kharagpur**, contributing to a panel discussion that engaged over 100 experts in the field of astrophysics and planetary defense
- Presented 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.