Gyan Vardhan

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EDUCATION

VIT Bhopal University, Bhopal	2022 − 2026
B.Tech in Computer Science & Engineering	*9.04 CGPA*
Dhruva Public School, New Delhi	2019 − 2021
Intermediate (XII)	*86.2 %*
Birla Vidya Mandir, Nainital	2014 − 2019
High School (X)	*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.

Machine Learning with Python
IBM Professional Certificate
- Completed a comprehensive course on machine learning using Python, including algorithms, data processing, and model evaluation.

OCI Data Science Professional
Oracle Cloud Infrastructure
- 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.