Gyan Vardhan

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EDUCATION

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

PROJECTS

ShapeVisualizer — Feb 2023 – March 2023

Unity ARcore Kit, C# — *Source Code*

- 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 — Nov 2024 – Jan 2025

Flutter, Firebase, NASA APIs, Gemini API — *Source Code*

- Developed Gemini AI chatbot in Flutter/Firebase for interactive space education
- Integrated NASA APIs for real-time planetary data, news, and Mars weather updates
- Created 7 space-themed learning modules, boosting engagement among children
- Enabled offline caching with Firebase, ensuring learning access without internet

SanchiAR – AR Monument Renderer App — Sept 2024 – Dec 2024

Unity, ARCore, ARKit, XR Origin, AR Session — *Source Code*

- Developed an AR application to place a virtual 3D model in real-time by scanning a QR code
- Utilized QR code as a reference image to accurately track and anchor the virtual object in the user's environment
- Implemented core AR logic using XR Origin for image tracking and XR Session for camera input management
- Designed a simple UI to guide users from app launch to successful AR interaction

TECHNICAL SKILLS

Concepts: Data Structures, OOP, Computer Networks, Operating Systems, DBMS, Machine Learning, Data Analysis
Frameworks: Flutter, Firebase, MongoDB, REST API, AWS Cloud Services, Unity and Unreal Game Engine
Programming: Java, Python, SQL, C#

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**.