

Gyan Vardhan

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EDUCATION

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

PROJECTS

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|---|-----------------------------|
| Sarvagya - Intelligent Research Assistant with Multi-Agent Workflow | Oct 2025 – Present |
| <i>N8N, Gemini API, ChromaDB, Supabase, Google Sheets</i> | Source Code |
| <ul style="list-style-type: none">Architected autonomous research agent in N8N with AI-driven decision making to orchestrate web scraping, API calls, and database queries based on user intentImplemented RAG pipeline with ChromaDB vector embeddings for context-aware responses from 500+ indexed sources.Developed smart routing logic utilizing LLM function calls to independently identify the best data sources (such as Google Search, academic APIs, and web scraping) for each type of query. | |
| LearnMate AI | June 2025 – Sept 2025 |
| <i>Python, LangChain, Hugging Face, FAISS, Gradio</i> | Source Code |
| <ul style="list-style-type: none">Developed an AI tutor that generates topic-specific explanations and quizzes using large language modelsImplemented Retrieval-Augmented Generation (RAG) for accurate, context-aware answersAdded conversational memory for dynamic, continuous learning sessionsDeployed Gradio-based interface for an interactive user experience | |
| Asteroid Impact Threat Analysis | Sep 2024 – Oct 2024 |
| <i>Python, Pandas, Matplotlib, Scikit-Learn</i> | 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
Frameworks: Flutter, MongoDB, AWS Cloud Services, Scikit-learn, Pandas, NumPy, TensorFlow, Langchain, LangGraph
Programming: Java, Python, SQL

CERTIFICATIONS

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| 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**.