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: Tableu, ML, MongoDB, REST API, AWS Cloud Services
Core Concepts: Data Structures, OOPS, Computer Networks, Operating Systems, Database Management System, SD

Projects

Customer Churn Prediction Analytics Platform | *Python, SQL, Tableau, Machine Learning* Source Code

- Developed end-to-end analytics solution predicting customer churn with 85% accuracy using Random Forest and XGBoost, analyzing 100K+ telecom customer records to identify key retention factors.
- Built interactive Tableau dashboard with risk segmentation and KPIs, enabling stakeholders to proactively target high-risk customers and optimize retention campaigns.
- Performed feature engineering and statistical analysis using Python and SQL, delivering actionable business insights projected to reduce customer churn by 22%.

OrbitChat - Interactive Space Learning App | *Flutter, Firebase, NASA APIs, Gemini API* Source Code

- Developed a Gemini AI-powered chatbot using Flutter and Firebase for educational purposes.
- Integrated multiple NASA APIs to deliver real-time data on planets, space news, and Mars weather.
- Designed 7 space-themed educational modules aimed at children, making learning interactive and fun.

Asteroid Impact Threat Analysis | *Python, Pandas, Matplotlib* Source Code

- Classified 4000+ asteroids as hazardous or non-hazardous using a dataset from NSSC 2024, applying EDA, feature engineering, and class imbalance handling.
- Achieved 85.5% accuracy using a tuned Random Forest Classifier with GridSearchCV and K-Fold cross-validation.
- Presented findings at NSSC 2024, IIT Kharagpur, contributing to discussions with a panel of 5 astrophysics experts.

Certification

Introduction to TensorFlow for AI, Machine Learning, and Deep Learning
DeepLearning.AI Certificate

- Learned to build scalable ML models using TensorFlow with real-world projects in vision and NLP.

Machine Learning with Python
IBM Professional Certificate

- Learned supervised/unsupervised ML models, feature engineering, and evaluation metrics using different ML modules.

OCI Data Science Professional
Oracle Cloud Infrastructure

- Gained hands-on experience deploying ML workflows on Oracle Cloud using Python SDKs and APIs.

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 GDG VIT BHOPAL, from December 2023
- Contributor at GirlScript Summer of Code (GSSoC) 2024 – contributed to 4 open-source repositories.