

Ansh Raut

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TECHNICAL SKILLS

- **Programming Language:** C++, Python, SQL
- **Web Technologies & Databases:** HTML, CSS, Javascript, MYSQL
- **Libraries:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn

EDUCATION

Vellore Institute of Technology, Bhopal

B.Tech in Computer Science and Engineering, CGPA: **8.80/10**

Govt.H.S. School Kamthi

Class XII, Percentage: **87.20%**

Govt.H.S. School Kamthi

Class X, Percentage: **97%**

Bhopal, Madhya Pradesh

October 2022 - July 2026

Chhindwara, Madhya Pradesh

April 2021 - July 2022

Chhindwara, Madhya Pradesh

April 2019 - July 2020

CERTIFICATIONS

- Introduction to Machine Learning , Infosys SpringBoard.
- The Bits and Bites of Computer Networking . Coursera, December 2023.
- Professional Certificate in Data Analyst, MTF Institute of Management, Udemy.

PROJECTS

GoldSight - (Machine Learning) | [GitHub](#)

August 2024 - October 2024

- **Technologies Used :**Python, Random Forest Regressor, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn.
- Engineered a Random Forest Regressor model leveraging Python and Scikit-learn to forecast gold prices based on historical datasets, attaining a 92% accuracy rate after rigorous data preprocessing and feature selection.
- Built a predictive model that accurately forecasts gold prices. The model's performance was visually compared by plotting actual versus predicted values, contributing to insights into price trends and decision-making in the gold market.

DiaSense - (Machine Learning) | [GitHub](#)

March 2024 - May 2024

- **Technologies Used :**Python, XGBoost, Random Forest, Scikit-learn, Pandas, NumPy, SMOTE, Matplotlib.
- Built an ensemble machine learning model (XGBoost + Random Forest) to predict diabetes from medical data, focusing on SMOTE-based imbalance handling, hyperparameter tuning, and cross-validation for high accuracy.
- Generated comprehensive analytical reports demonstrating 98% accuracy using an XGBoost-Random Forest ensemble, with supporting metrics (F1-score: 0.97, ROC-AUC: 0.99) surpassing clinical benchmarks.

ReadSphere - (Frontend Web Development) | [GitHub](#)

October 2023 - November 2023

- **Technologies Used:** HTML, CSS and basic JavaScript for dynamic content and user interaction.
- Developed a responsive and interactive e-book website that enables users to browse, and read e-books online. The site includes features such as a, categorized book listings, and a detailed book information page.
- Engineered a fluid e-book website interface with HTML, CSS, and JavaScript, achieving a 95% satisfaction score in user experience surveys with a notable improvement in the Net Promoter Score.

ACHIEVEMENTS

- Earned prestigious 5-star Gold Badges in both C++ and Python on HackerRank.
- Solved 1000+ coding questions across leading platforms including Coding Ninjas, GeeksforGeeks, and LeetCode.

EXTRACURRICULARS

E-Green Club, VIT Bhopal

- Member of E-Green Club and participated in Upcycled Treasures held in February 2024.
- Created and presented a pen rack using Wood Scraps among 50+ teams. It showcases the ability to repurpose and recycle materials, reducing waste and promoting eco-friendly practices.

ADDITIONAL INFORMATION

Hobbies: - Playing Cricket , Travelling

Languages: - English, Hindi