Ansh Raut

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TECHNICAL SKILLS

- **Programming Language:** C++**,** C, Python, SQL
- **Web Technologies**: HTML, CSS, Javascript, ReactJS
- **Databases**: MYSQL
- **Miscellaneous**: Machine Learning

Certifications:

- Machine Learning - Fundamentals of Python Machine Learning , Udemy
- The Bits and Bites of Computer Networking . Coursera, December 2023
- Complete Javascript with HTML5 , CSS3 from zero to expert-2024 , Udemy

EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY (VIT Bhopal)	**Bhopal, Madhya Pradesh**
Bachelor of Technology CSE Core	**October 2022 - May 2026**
CGPA: - 8.55	
Govt.H.S. School Kamthi	**Chhindwara, Madhya Pradesh**
M.P Board Class 12	**June 2021 - April 2022**
Percentage: - 87.20%	
Govt.H.S. School Kamthi	**Chhindwara, Madhya Pradesh**
M.P Board Class 10	**June 2019 - April 2020**
Percentage: - 97%	

ACADEMIC PROJECTS

Gold Price Prediction
May 2024 - June 2024

- **Description:** 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.
- **Technologies Used :**Python, Random Forest Regressor, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn.
- **Results :** 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

Diabetes Prediction
March 2024 - April 2024

- **Description:** 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.
- **Technologies Used :**Python, XGBoost, Random Forest, Scikit-learn, Pandas, NumPy, SMOTE, Matplotlib.
- **Results :** 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.

E-Book Website
October 2023 - November 2023

- **Description:** 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.
- **Technologies Used:** HTML, CSS and basic JavaScript for dynamic content and user interaction.
- **Results:** 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