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	Bhopal, Madhya Pradesh
B.Tech in Computer Science and Engineering, CGPA: **8.78/10**	October 2022 - July 2026
Govt.H.S. School Kamthi	Chhindwara, Madhya Pradesh
Class XII, Percentage: **87.20%**	April 2021 - July 2022
Govt.H.S. School Kamthi	Chhindwara, Madhya Pradesh
Class X, Percentage: **97%**	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

ConvoQuest – (Generative AI Web Application) | GitHub   **January 2025 - February 2025**
- **Technologies Used :**Python, Streamlit, Google Gemini API.
- Developed a 3-in-1 Generative AI web application using Python and Streamlit, integrating the Google Gemini API to build a conversational chatbot, an automated quiz generator, and a persistent conversation history module.
- Engineered a quiz-generation system enforcing a structured JSON schema from the Gemini model, ensuring 100% data integrity and reliable parsing for dynamically generating and evaluating 20-question assessments across any topic.

DiaSense - (Machine Learning) | GitHub   **September 2024 - October 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   **July 2024 - August 2024**
- **Technologies Used:** HTML, CSS and basic JavaScript for dynamic content and user interaction.
- Developed a responsive e-book website using HTML, CSS, and JavaScript, featuring categorized book listings, detailed information sections, and simulated browsing functionality to demonstrate structured content presentation.
- Implemented interactive navigation menus, dynamic design elements, and responsive layouts for the e-book platform, showcasing expertise in client-side development, accessibility standards, and modern web technologies.

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