ANSHUL RANA

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EDUCATION

Graphic Era Hill University   **2022 - 2026**
B.Tech - Computer Science and Engineering - CGPA - 7.81   *Haldwani, Uttarakhand*

Doon Convent School   **2021 - 2022**
Intermediate - 70%   *Haldwani, Uttarakhand*

Doon Convent School   **2019 - 2020**
High School - 75%   *Haldwani, Uttarakhand*

PROJECTS

ADmyBRAND SaaS Landing Page | Next.js, TypeScript, Tailwind, Framer Motion   **July 2025**
- Built a responsive landing page with 6+ sections and 12+ reusable component system.
- Integrated pricing toggle, FAQ accordion, and testimonial carousel with Framer Motion for smooth UX.
- Deployed on Netlify with CI/CD and optimized for sub-1s load times and cross-device performance.

CPU Scheduling Visualizer | React, Next.js, Tailwind CSS, JavaScript   **2025**
- Designed and deployed an interactive web app to simulate 4+ CPU scheduling algorithms, featuring real-time Gantt chart rendering and performance comparison.
- Engineered reusable React components with Next.js routing, cutting code redundancy by 30% and enhanced responsiveness using Tailwind CSS.

AQI Index Prediction | Python, Machine Learning, Streamlit   **2024**
- Trained a Random Forest model with **86%** R^2 score to predict PM2.5 and AQI from temperature, humidity, and wind speed data.
- Fetched weather data from public APIs and plotted AQI levels over time using Streamlit.
- Added AQI alerts and displayed related health tips based on standard air quality thresholds.

Calorie Burn Prediction System | Python, Machine Learning, Streamlit   **2024**
- Architected a calorie prediction model using XGBoost with **98%** test accuracy on 15,000+ data points.
- Processed biometric and workout attributes (heart rate, BMI, duration, temperature.) through rigorous feature engineering and scaling.
- Launched a real-time prediction interface using Streamlit, achieving sub-200ms response times for user input.

TECHNICAL SKILLS

Languages: C, C++, Python, HTML5, CSS3, JavaScript
Framework & Libraries: Pandas, Numpy, Scikit-learn, Streamlit, React.js, Tailwind CSS
Developer Tools & Version Control: VS Code, PyCharm, Anaconda, Git ,Github
Databases: MySQL, PostgreSQL

RELEVANT COURSEWORK

- Data Structures
- OOPs Concepts
- Google Cloud
- Operating Systems
- Machine Learning
- DBMS

CERTIFICATIONS

- Google AI Essentials | Coursera
- Explore Machine Learning Using Python | Infosys SpringBoard
- Python for Data Science| Infosys SpringBoard

EXTRACURRICULAR

- Semi-finalist in Code Gladiators 2024 and 2023 - one of India's largest coding contests.
- Participated in HackOn with Amazon (Season 5) and TCS CodeVita (Season 12).
- State Champion (2019) and National Runner-up (2018, 2019, 2021) in Kyokushin Full Contact Karate tournaments.