Rohit Agrawal

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Education

- Currently **Bachelor of Technology (Computer Science Engineering)**
  Invertis University, Bareilly | *2023 – 2027*
  Current CGPA: **9.0**

- **Class XII (UP Board)** | 2023 — **92%**
  Class X (UP Board) | 2021 — **90.8%**

Skills

- **Data Science & Machine Learning:** Data Cleaning, EDA, Feature Engineering, Classification Models, Model Evaluation, Explainable AI (SHAP, LIME)
- **Programming & Databases:** Python, SQL
- **Data Visualization & BI:** Power BI, Matplotlib, Seaborn
- **Libraries & Tools:** Sckiti-learn, XGBoost, Tensorflow (Basics), Git, Jupyter Notebook

Experience / Internship

Altair Data Science Virtual Internship *Oct 2025–Dec 2025*

- Successfully completed a **10-week Data Science Master Virtual Internship** focused on applied data analysis and machine learning.
- Worked on **real-world datasets**, data preprocessing, visualization, and model building.
- Gained hands-on experience with **industry-oriented data science workflows**.

Google AI–ML Virtual Internship *April 2025- June 2025*

- Learned end-to-end machine learning workflows including data preprocessing, model training, and evaluation.
- Gained practical exposure to real-world AI problem-solving approaches

ITI – ICTSM (Information & Communication Technology System Maintenance) *Aug 2023–July 2025*

- Hands-on experience with computer hardware, operating systems, and basic networking.
- Performed system troubleshooting, installations, and technical support tasks.

Projects

Heart Attack Risk Prediction (ML | Explainable AI | UGC Dataset)

Dataset: UCI Heart Disease Dataset

- Built a complete **end-to-end heart attack analysis system** from data cleaning to final insights.
- Performed **EDA and feature engineering** to identify key medical risk patterns.
- Trained and evaluated **machine learning classification models** for risk prediction.
- Used **Explainable AI (SHAP & LIME)** to explain model predictions in a human-understandable way.
- Designed a **multi-page interactive Power BI dashboard** to visualize trends across age, gender, BP, cholesterol, ECG, and clinical factors.
- Documented the project through a **detailed technical report** and shared results via an interactive dashboard.

Tech: Python, Scikit-learn, SHAP, LIME, Power BI

Links: GitHub | Medium Report | Power BI Dashboard

Text Emotion Detection (Sentiment Analysis)

- Built an ML-based system to classify text emotions such as joy, anger, sadness, and fear.
- Implemented text preprocessing and trained classification models.
- Deployed a simple web app for real-time emotion prediction.

Tech: Python, NLP, Scikit-learn, Flask

Links: GitHub | Medium Report | Live Demo

Participation & Achievements

- **IEEE Student Member**
- Participated in **HackBhoomi 2025** (Internal Smart India Hackathon), **Invertis University**
- Strong interest in building **real-world, data-driven solutions**

Certifications

- Google AI-ML Virtual Internship *EduSkills | Supported by Google*
- Altair Data Science Master Virtual Internship *EduSkills | Supported by Altair & AICTE*
- Python for Data Science *IBM / Coursera*
- **Tata Data Visualization: Empowering Business with Effective Insights** *Tata Group (Forage)*