Dhriti Yadav

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Education

United Institute of Technology, Prayagraj 2023 – 2027
Bachelor of Technology in Computer Science & Engineering

Technical Skills

- **Programming Languages:** Python, Java, C++, JavaScript, C
- **Data Science & Machine Learning:** Pandas, NumPy, Scikit-Learn, XGBoost
- **Computer Vision:** OpenCV, MediaPipe
- **Backend & APIs:** Flask, REST APIs, Spring Boot, Node.js
- **Databases:** SQLite, MySQL, MongoDB
- **Frontend:** React.js, HTML5, CSS3, Bootstrap
- **Tools:** Git, GitHub, VS Code, Postman, Streamlit, Render

Experience & Training

Web Developer Intern — Code Resite Pvt Ltd June 2025 – July 2025

- Developed backend APIs and integrated databases to support web application features.
- Worked with Git for version control and collaborated with team members during backend development.

Python Training — United Institute of Technology June 2023 – July 2023

- Completed Python training covering programming fundamentals, data structures, and problem-solving techniques.

Projects

AI Gesture Volume Control | *Python, OpenCV, MediaPipe, Pycaw* Code

- Developed a real-time hand gesture recognition application using Python, OpenCV, and MediaPipe to detect finger movements through a webcam.
- Used Pycaw and NumPy to control Windows system volume based on finger distance with smoother volume transitions.

Fake News Detector | *Python, Scikit-Learn, TF-IDF, Streamlit* Code | Live

- Built a machine learning model using TF-IDF and Scikit-Learn to classify news articles as real or fake.
- Performed text preprocessing and feature extraction before training and evaluating the classification model.
- Developed a simple Streamlit web application to allow users to test news articles in real time.

Air Quality Index Predictor | *Python, Flask, XGBoost, React.js* Code | Live

- Built an Air Quality Index prediction system using XGBoost and Flask to estimate AQI from environmental data.
- Preprocessed and analyzed environmental data using Pandas and NumPy before training and evaluating the XGBoost model.
- Integrated the Flask backend with a React frontend using REST APIs to provide real-time AQI predictions.

Achievements

- Solved **200+** Data Structures and Algorithms problems across LeetCode and CodeChef.
- Achieved a **LeetCode rating of 1625**.
- Earned a **2-Star CodeChef** rating with a peak rating of **1542**.
- Winner of the **E-BOX Top Coders 2025–26** coding competition.