# HARSHA RAUT

90650 17059 harshraut9945@gmail.com linkedin Github Portfolio

## Objective

Results-driven Computer Science and Design Engineering student with hands-on experience in Frontend Development and Machine Learning. Skilled in building responsive web applications using React.js, Node.js, and Tailwind CSS, and developing predictive models using Python, Pandas, TensorFlow, and Scikit-learn. Strong foundation in data analysis, visualization, and API integration, with a focus on creating scalable, user-centric, and data-driven solutions.

## Education

**Greater Noida Institute of Technology,Greater Noida** **Aug 2022- Present**
*Bachelor of Technology – Computer Science*

**Indian Public School – Bihar** **Feb 2020 – Jun 2021**
*Higher Secondary Education*

**Indian Public School – Bihar** **Feb 2018 – Jun 2019**
*Secondary Education*

## Skills

**Languages**: Python, Java, JavaScript.
**Web Technologies**: HTML, CSS, React.js, Node.js, Express.js, Tailwind CSS.
**Data Science & Machine Learning**: Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, Excel.
**Databases**: MySQL, MongoDB, Firebase,SQL.
**Tools & Platforms**: Git, GitHub, VS Code, Jupyter Notebook.
**Soft Skills**: Problem Solving, Communication, Team Collaboration, Adaptability.

## Projects

**AI Chatbot Application (React + Gemini API)** | *React.js, JavaScript, Tailwind CSS, Gemini API, LocalStorage*

- Developed an interactive chatbot web application integrated with the Gemini API for real-time user conversations.
- Implemented persistent chat history using localStorage, ensuring continuity after page refresh.
- Designed a responsive and mobile-friendly UI with Tailwind CSS, improving accessibility and usability.
- Added loading and error-handling states to enhance user experience and reliability.

**House Price Prediction Model (ML)** | *Python, Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib*

- Designed a supervised regression model to predict house prices based on various numerical and categorical features.
- Performed data pre processing, encoding, scaling, and model evaluation to improve accuracy.
- Implemented and compared Linear Regression, Random Forest, and Neural Network models for performance optimization.
- Visualized model insights using Matplotlib to identify key feature correlations.

**Facial Expression Detection (Deep Learning, CNN)** | *Python, TensorFlow/Keras, OpenCV, NumPy,Flask*

- Built a Convolutional Neural Network (CNN) to classify facial expressions such as happy, sad, angry, neutral, and surprise.
- Applied image preprocessing techniques including resizing, grayscale conversion, normalization, and augmentation.
- Deployed the model using Flask, displaying emotion predictions on a responsive web page.

## Awards & Achievements

**Clash of Code Conduct (Microsoft Student Community):**
∗ Ranked Top 5 out of 150+ participants, demonstrating fast problem-solving in Python & JavaScript.

**HackWithUttarakhand 2024:**
∗ Secured 3rd Place by building a logistics web app within 36 hours, enabling real-time truck booking and tracking.

**LeetCode Challenges:**
∗ Solved 200+ problems on LeetCode, strengthening algorithmic problem-solving skills in Python and JavaScript.

## Certifications

**React.js Frontend Development** | *Udemy*

- Built responsive single-page applications using React, hooks, props, and component-based architecture.

**Data Science with Python** | *E & ICT Academy, IIT Kanpur (MeitY, Govt. of India)*

- Completed an intensive Student Development Program focused on Python-based Data Science, including data analysis, data preprocessing, visualization, and machine learning fundamentals.
- Gained hands-on experience with Pandas, NumPy, Matplotlib, and real-world datasets for analytical problem-solving.