hruti Singh

J +91 8401795649 **▼** shru2004@gmail.com

Education

VIT Bhopal University

Oct. 2022 - Present

BTech in Computer Science with Specialization in Artificial Intelligence and Machine Learning

Bhopal, Madhya Pradesh

Relevant Coursework

- Data Structures • Machine Learning
- Algorithms Analysis
- Database Management
- Artificial Intelligence • Engineering Physics
- Data Science
- Computer Architecture

Experience

Technologies Edutech

January 2025 - February 2025

Machine Learning Intern

Online mode

- Implemented various machine learning algorithms (e.g., K-mean clustering, Decision Trees) on real-world datasets.
- Evaluated model performance using metrics such as accuracy, precision, recall, and confusion matrix.
- Gained hands-on experience with Python, scikit-learn, NumPy, Pandas, and Matplotlib.
- Improved understanding of the end-to-end machine learning workflow, from data handling to model deployment basics.

Projects

Clinical Data Analysis for Healthcare Management | LSTM, SVR, Random Forest, Pandas, NumPy October 2024

- Developed a machine learning-based system to predict malaria outbreaks (Plasmodium vivax and falciparum) in Sehore district using historical clinical and environmental data.
- Integrated climate variables like rainfall, temperature, and seasonality to improve forecasting accuracy.
- Enabled proactive decision-making for healthcare resource allocation and vector control, demonstrating the potential of AI in public health surveillance.

Virtual mouse | Python, Computer Vision, Gesture Recognition, OpenCV

April 2024

- The virtual mouse uses computer vision and hand-tracking technology to control a computer's cursor without physical contact.
- By detecting hand movements and gestures through a webcam, users can perform typical mouse functions like clicking, scrolling, and dragging.
- This innovative project showcases the integration of hardware and software to create a touchless and intuitive user interface.

Recipe Recommendation System | Python, Flask, Pandas, Web Development

August 2023

- Developed a web-based recipe recommendation system that suggests recipes based on ingredients entered by the user.
- Used a Indian Food dataset from Kaggle containing a large collection of recipes with their corresponding ingredients.
- Worked collaboratively as a team, dividing tasks such as backend logic, dataset handling, UI design, and testing.

Technical Skills

Languages: Python, Java, C, C++ HTML/CSS, JavaScript, SQL Developer Tools: VS Code, Google Cloud Platform, IntelliJ Idea

Certifications

- GEN AI Using IBM Watsonx
- Oracle: Databases for Developers: Foundations
- Applied Machine Learning in Python
- Mathworks: Simulink Onramp
- Mathworks: Matlab Onramp

Languages

• Hindi • English • Korean (Beginner Level)