SHRUTI SINGH

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Education

BTech in Computer Science and Engineering with Specialization in AI & ML	**CGPA = 8.77/10**
VIT Bhopal University	*Aug. 2022 – Present*
12th Grade (CBSE)	**Percentage = 87.2%**
Kendriya Vidyalaya Sangathan	*Apr. 2020 - Mar. 2021*
10th Grade (CBSE)	**Percentage = 93%**
Kendriya Vidyalaya Sangathan	*Apr. 2018 - Mar. 2019*

Experience

Technohacks 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, Matlab Onramp

Languages

- Hindi
- English
- Korean (Beginner Level)