Riya Singh

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EDUCATION

VIT Bhopal University   **09/2022 – 05/2026**
B.Tech in Computer Science - 8.89 GPA   *Bhopal, India*

Eicher School Faridabad   **04/2021 – 06/2022**
12th Grade CBSE - 93.8%   *Faridabad, India*

Eicher School Faridabad   **04/2019 – 06/2020**
10th Grade CBSE - 85%   *Faridabad, India*

TECHNICAL SKILLS

- **Programming Languages:** C++ (Intermediate), Python (Intermediate)

- **Libraries & Tools:** NumPy, Pandas, Scikit-learn, OpenCV, Git

- **Miscellaneous:** Firebase, MySQL

PROJECTS

DataGlow – Interactive Data Preprocessing & ML Modeling App   **03/2025**
Technologies: Python, Streamlit, Scikit-learn, Pandas, NumPy, Plotly, CSV, Random Forest, SVM

- Developed a Streamlit web application to preprocess and analyze datasets, reducing preprocessing time by up to 70%
- Applied data cleaning, transformation, and filtering on datasets with over 100,000 rows using Pandas and NumPy, with transformations like log, normalization, and square root
- Integrated Random Forest and SVM models with Scikit-learn, achieving up to 92% accuracy, and included performance metrics such as confusion matrix and accuracy score
- Created a prediction interface for real-time inference on user input, providing results in under 2 seconds using trained models
- Used Streamlit's session state and query parameters to implement multi-page navigation, improving app usability
- Enabled CSV export of preprocessed datasets, ensuring data integrity for downstream analysis

Stock Prediction using LSTM   **09/2024**
Technologies: Python, NumPy, Pandas, PyTorch, Scikit-learn, LSTM

- Engineered a robust LSTM forecasting model that processed and analyzed 1M+ historical stock data points, enhancing decision-making processes and accelerating insight generation by 40%
- Achieved a Mean Absolute Percentage Error (MAPE) of 3.2% and Root Mean Square Error (RMSE) of 1.7, ensuring high forecasting accuracy
- Processed 4,000+ rows of financial time series data, optimizing feature engineering techniques for trend and pattern analysis
- Enhanced prediction performance through hyperparameter tuning, improving model accuracy by 12%

WORK EXPERIENCE

iOS Club   **10/2023 – Present**
Technical Co-Lead   *Bhopal, India*

- Assisted in organizing and coordinating Techastra (Dec 2023), a flagship technical event with 150+ participants
- Appointed as Technical Co-Lead in April 2024, leading technical project development, innovation initiatives, and team mentorship

Smart India Hackathon 2024 – Hardware Edition   **12/2024**
National Finalist   *Kottayam, Kerala*

- Selected among top 6 national teams for the hardware problem statement: *Development of a Cost-Effective Myoelectric Prosthesis*
- Designed and fabricated a transradial prosthetic hand using recycled 3D-printed materials and low-cost sensors, achieving 92% cost reduction

HOBBIES AND EXTRA-CURRICULAR

Brain Training Enthusiast
Daily practice on Elevate and Lumosity to enhance cognitive skills such as memory, focus, and processing speed

Logic and Puzzle Solving
Regularly engage in Sudoku to sharpen problem-solving and critical thinking abilities

10M Air Pistol Shooting
Trained shooter with competition experience up to the North Zone level