

NAMRATA BHUTANI

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<https://github.com/nam-bhutani>

Education

VIT Bhopal University B. Tech Computer Science Engineering CGPA: 9.19	Bhopal, Madhya Pradesh 2022 - Present
Senior Secondary (Class XII) Prelude Public School Percentage-95%	Agra, Uttar Pradesh Jul 2022
Higher Secondary (Class X) St. Francis Convent School Percentage-92.3%	Agra, Uttar Pradesh Jul 2020

Skills

Java, Python (TensorFlow, Scikit-learn, NumPy, Pandas, Matplotlib, Pytorch), SQL, Neural Networks, Machine Learning, Deep Learning.

Projects

- **Driver Drowsiness Detection via Electroencephalographic Signal Analysis | ML** *April 2023- July 2023*
Technology: MATLAB, EEG SIGNALS
 - Spearheaded the development of a real-time drowsiness detection system leveraging EEG signal analysis to classify a person's state as drowsy or alert.
 - Integrated large-scale EEG datasets with machine learning algorithms to enhance model accuracy and responsiveness.
 - Collaborated with a cross functional team of 5 members
 - Role: Contributed as a Developer, focusing on data preprocessing, and implementation.
 - Results: The model achieved an overall accuracy rate of 96% in detecting drowsiness.
- **Data-Driven Model for Predicting Urban Air Quality Metrics | Machine Learning** *Jan 2025- May 2025*
Technology Used: Python (including TensorFlow, Scikit-learn, NumPy, Pandas, and Matplotlib).
 - Developed a predictive model to estimate Air Quality Index (AQI) by analyzing correlations between various environmental components affecting air quality.
 - Processed large datasets containing regional pollution measurements and applied feature selection techniques to enhance accuracy.
 - Results: Achieved accuracy of around 91%.
- **Urban Planning using Remote Sensing Image Interpretation | Deep Learning** *July 2024- June 2025*
Technology: Python, TensorFlow, Scikit-learn, Neural Networks, Rigid Regression
-Groundwater Level Prediction for Urban Planning
 - Designed a ground-level water prediction model for aquifer data using neural networks to estimate groundwater levels for sustainable urban planning.
 - Leveraged rigid regression models alongside neural networks for enhanced accuracy in predicting net groundwater availability across various geographic locations.
 - Worked with a cross functional team of 10 members
 - Major Role: Formulated ground-level prediction algorithms, integrated water consumption trends, and optimized deep learning model parameters.
 - Results: Achieved the accuracy of 82%.

Certifications

- Machine Learning and Data Science using Python - Udemy *Aug 2024*
- IBM GenAI Certification *May 2025*
- NPTEL- Cloud Computing – IIT Kharagpur *May 2024*

Co - Curriculars

- Event Coordinator (Code Garuda 2.0) | Microsoft Technical Club -VIT BHOPAL *Feb 2024*
Cooperated with a dedicated team of 20 volunteers to organize Code Garuda 2.0 during ADVITYA 2024.
- Research representative | Stats O Locked Club - VIT Bhopal University *April 2024 - Dec 2024*
- Volunteered in Code Garuda 1.0, Microsoft Technical Club, VIT Bhopal during ADVITYA 2023 *Feb 2023*

Additional Information

- Languages- English, Hindi
- Hobbies- Painting, Travelling