NAMRATA BHUTANI

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Education

VIT Bhopal University — Bhopal, Madhya Pradesh
B. Tech Computer Science Engineering — 2022 - 2026
CGPA: 9.20

XII
Prelude Public School — Agra, Uttar Pradesh
Percentage-95% — Jul 2022

X
St. Francis Convent School — Agra, Uttar Pradesh
Percentage-92.3% — Jul 2020

Skills

- Technical Skills: Proficient in Java (Data Structures and Algorithms), Python, HTML/CSS, MATLAB(Basic).
- Soft Skills: Strong problem-solving, communication, teamwork, and leadership abilities.

Projects

- **Driver Drowsiness System**
  - Description: Developed a real-time drowsiness detection system by analysing EEG signals (brain waves) to detect a person's state (drowsy or awake). Utilized large-scale EEG datasets with diverse brain.
  - Technology: MATLAB, EEG SIGNALS
  - Team Project: Collaborated with a cross functional team of 5 members
  - Role: Developer
  - Results: Achieved the accuracy of 96%.

- **Air Quality Prediction Model**
  - Description: 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.
  - Technology Used: Python, Pandas, NumPy, Matplotlib, Scikit-learn.
  - Results: Achieved accuracy of around 91%.

- **Urban Planning using Remote Sensing Image Interpretation**
  -Groundwater Level Prediction for Urban Planning
  - Description: 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.
  - Technology: Python, TensorFlow, Scikit-learn, Neural Networks, Rigid Regression
  - Team Project: Collaborated with a cross functional team of 10 members
  - Major Role: Developed ground-level prediction algorithms, integrated water consumption trends, and optimized deep learning model parameters.
  - Results: Achieved the accuracy of 82%.

Courses/Certifications

- Machine Learning and Data Science using Python - Udemy (Aug 2024)
- Python Basics - Kaggle (May 2023)

Co - Curriculars

- Event Coordinator (Code Garuda 2.0) | Microsoft Technical Club — Feb 2024
  Collaborated with a dedicated team of around 20 volunteers to meticulously organize Code Garuda 2.0 which was held during ADVITYA 2024.
- Earned a 5-star rating in Python coding on HackerRank.
- Participated in various hackathons like Google Girl Hackathon, Hack-On with Amazon, Flipkart Grid 5.0, etc.
- Volunteered in Code Garuda 1.0, Microsoft Technical Club, VIT Bhopal (Feb 2023)-ADVITYA 2023.

Additional Information

- Languages- English, Hindi