CHAITANYA KUMAR SINHA

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EDUCATION

B. Tech in Computer Science and Engineering	2021-25	Vellore Institute of Technology, Bhopal	8.84
CBSE (Class XII)	2021	St. Paul's Convent Sr. Sec School, Ujjain	95%
CBSE (Class X)	2019	St. Paul's Convent Sr. Sec School, Ujjain	95%

INTERNSHIP/S

Machine Learning Intern, **Bambhari Solutions**, Remote   July, 2023 – September, 2023

Bambhari – offers a wide range of high-quality products designed to meet the needs of customers across various industries.

- Developed and trained a Random Forest model on 1 million URLs, achieving a 94% accuracy threshold.
  - Created and trained a Random Forest model with a dataset of 1,000,000 URLs, achieving an RMSE score of 0.56 on the test set.
- Launched a real-time Flask model for website deployment, significantly improving user engagement.
  - Reduced bounce rate by 25%

ACADEMIC PROJECTS

- **Project 1:** Rainfall Estimation and Energy Estimation Model (January 2024 - April 2024)
  - **Description:** Developed an advanced Rainfall Prediction System using historical Indian rainfall data from 1901-2015. The project involved processing a comprehensive dataset of 20,000 rows and employing various machine learning models like Linear Regression, Decision Tree, Random Forest, and Artificial Neural Networks.
  - **Role:** Managed data processing, model training, and optimization to enhance forecast accuracy.
  - **End-Result:** The system achieved a Mean Absolute Percentage Error (MAPE) score of 0.003414 and a Mean Squared Error (MSE) score of 0.000048. It was successfully deployed in agriculture and energy sectors, leading to a 30% increase in crop yield through optimized water usage and a 15% reduction in energy operational costs via improved hydroelectric power generation scheduling.

- **Project 2:** Phishing Website Detector (November 2023 - December 2023)
  - **Description:** Constructed a phishing website detector that accurately classifies URLs as clean or malicious.
  - **Role:** Built and trained a Random Forest model using a dataset of 1,000,000 URLs, achieving an RMSE score of 0.56 on the test set. Designed a user-friendly web interface for seamless URL classification.
  - **End-Result:** The model was deployed in real-time using Flask, which improved user engagement and reduced the bounce rate by 25%.

ACADEMIC ACHIEVEMENTS AND AWARDS

- Awarded "5 Star" ratings in Python and SQL on HackerRank.
- Winner of "Brain of Madhya Pradesh" – an academic state-wide competition in September 2017.

POSITIONS OF RESPONSIBILITY

- Content **Team Lead, English Literary Association VIT Bhopal (March 2023 – April 2024)**
  - **Role:** Led the content creation team for various events and publications.
- Editor **in Chief, ELA Gazette (March 2022 – March 2024)**
  - **Role:** Managed the editorial team and oversaw the publication of the annual club magazine.

OTHER INFORMATION

- Basketball – State Level Competitions
- 3 Year Guitar Lessons Under Prachin Kala Kendra, Chandigarh