# TUSHAR JITENDRA BHADANE

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## Education

**VIT Bhopal University** 2022 – 2026
*Bachelor of Technology in Computer Science with Cyber Security* *CGPA: 8.18*

## Skills

- **Languages:** Python, SQL, Java, C++
- **Data Science & Machine Learning:** Statistical Analysis, Predictive Modeling, Data Mining, Scikit-learn, TensorFlow, Data Visualization (Matplotlib, Seaborn, Tableau, Power BI)
- **Data Handling & Tools:** Pandas, NumPy, Jupyter Notebook, Excel, Database Management (MySQL)
- **NLP:** Text Preprocessing, Sentiment Analysis, NLTK
- **Deep Learning:** Neural Networks, CNN, RNN, Transfer Learning, TensorFlow
- **Problem Solving:** A/B Testing, Exploratory Data Analysis (EDA), Feature Engineering, Data Cleaning
- **Soft Skills:** Critical Thinking, Problem-Solving, Communication, Collaboration, Adaptability

## Projects

**Credit Card Fraud Detection – Machine Learning**

- Developed a machine learning model to detect fraudulent transactions using a dataset of 284,807 entries with 31 features.
- Handled class imbalance issue (fraud cases only 0.02%).
- Used Python libraries (NumPy, pandas, Matplotlib, Seaborn) for data processing and visualization.
- Trained Random Forest Classifier achieving accuracy (99.96%), precision (98.73%), recall (79.59%), F1-score (88.14%).
- Visualized results with a confusion matrix; proposed further improvements with balancing techniques.

**Twitter Sentiment Analysis – NLP**

- Performed sentiment classification of tweets to identify positive, negative, or neutral opinions using Python on the Sentiment140 dataset.
- Utilized pandas, scikit-learn, and NLTK for data handling, text preprocessing, and model building.
- Applied TF-IDF vectorization with unigrams and bigrams for feature extraction after cleaning and filtering data.
- Split dataset into training and test sets (80:20) to ensure reproducible model evaluation.
- Trained and compared classifiers including Bernoulli Naive Bayes, Support Vector Machine, and Logistic Regression with competitive accuracy.
- Demonstrated model predictions on sample tweets to validate sentiment classification performance.

## Certifications

- Google Data Analytics Professional Certificate
- AWS Cloud Practitioner Certificate
- Data Science Specialization – Coursera
- Coursera – The Bits and Bytes of Computer Networking (Google)
- NPTEL Cyber Physical System – 8-week course with proctored exam

## Achievements

- Qualified till Round 2 of national-level coding competition TCS CodeVita.
- Active member of Microsoft Club at VIT Bhopal – attended technical talks on Cloud, AI, and Data Science.
- Participated in hackathons and coding challenges on LeetCode and HackerRank.