 VIRENDRA CHAUDHARY

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Bachelor of Technology

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in Computer Science and Engineering

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VIT BHOPAL UNIVERSITY , BHOPAL

[o](https://bhuriamohit.github.io/portfolio/)

**Education**

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| --- | --- | --- | --- |
| Degree | Institute/Board | CGPA/Percentage | Year |
| Bachelor of Technology | Vit Bhopal University, BHOPAL | 7.68 (Till 4th Sem) | 2022-2026 |
| Senior Secondary | Board of Secondary Education, Rajasthan | 93.20% | 2021 |
| Secondary | Board of Secondary Education, Rajasthan | 83.17% | 2019 |

# **Projects**

# **Lung Cancer Detection Using Machine Learning** [GitHub](https://github.com/virendrachaudhary29/lung_cancer)

Professor: Mrs. Shilpa Suman

**Technologies Used**: Python, Jupyter Notebook, Streamlit, scikit-learn, NumPy, Pandas

**Project Description**:  
Developed a machine learning model to predict lung cancer presence based on patient data. The project includes data preprocessing, model training, evaluation, and deployment using Streamlit for an interactive user interface.

**Key Features**:

* **Data Preprocessing**: Cleaned and prepared the dataset for modeling.
* **Model Training**: built models using sequence models (deep learning).
* **Evaluation**: Assessed model performance using appropriate metrics.
* **Deployment**: Created a Streamlit app for user-friendly interaction with the model.

# **Social Media Sentiment Analysis Using Machine Learning** [Github](https://github.com/virendrachaudhary29/social-media-sentiment-analysis-using-machine-learning-)

Professor: Dr vipin jain

**Technologies Used**: Python, scikit-learn, XGBoost, Naive Bayes, Linear Regression

**Project Overview**:  
Developed a machine learning model to analyze and classify sentiments from social media data, specifically tweets. The project utilizes the Sentiment140 dataset from Kaggle, comprising 1.6 million tweets labeled for sentiment.

**Key Features**:

* **Data Preprocessing**: Cleaned and prepared the dataset for modeling.
* **Model Implementation**: Trained and evaluated three different models—Naive Bayes, Linear Regression, and XGBoost.
* **Performance**: Achieved an accuracy of approximately 80% in sentiment classification.

# **RAG-Based Code Explainer Platform**

**Tech Stack:** Django, ChromaDB, Gemini API

* Implemented Retrieval-Augmented Generation to answer user queries about uploaded codebases.
* Developed custom embedding logic with Sentence Transformer and stored/query vectors using ChromaDB.
* Integrated Gemini API for high-quality generative responses to technical queries.

# **Technical Skills**

 **Programming**: C++, Python, JavaScript (ES6+)

 **Web Development**: Django, react, fast api, flask, nodejs.

 **DSA**: Arrays, Trees, Graphs, Dynamic Programming, STL. [leetcode](https://leetcode.com/u/virendremoond/), [geekforgeeks](https://www.geeksforgeeks.org/user/virendra_chaudhary/)

 **Machine Learning**: scikit-learn, XGBoost, LightGBM, Pandas, NumPy, Streamlit for model representation

 **Tools & Platforms**: Git, GitHub, Postman, VS Code, Streamlit, ChromaDB

 **Databases**: MongoDB, Airtable, SQL

 **Others**: REST APIs, OOP, Version Control, Prompt Engineering, LLMs (Gemini/OpenAI

**Certifications & Key Courses**

* **Cloud Computing** – NPTEL (IIT-led MOOC)
* **Bits and Bytes of Computer Networking** – Coursera (offered by Google)
* **Machine Learning Specialization** – Coursera (by Andrew Ng, Stanford University)
* **Marketing Analytics** – NPTEL