Kumari Vaishnavi

Bachelor of Technology in Computer Science and Engineering

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Education

VIT Bhopal University   **CGPA: 8.52 | Sep. 2022 — May 2026**

Bachelor of Technology in Computer Science and Engineering   Bhopal, Madhya Pradesh

Projects

Twitter Sentiment Analysis | (Python, Natural Language Processing, Scikit-Learn) | **Link**   **February 2025**

- **Developed** a **logistic regression-based sentiment analysis model** to classify **1.6 million tweets** into **positive, negative, or neutral** categories, enabling businesses and analysts to extract **meaningful insights** from **user-generated content**.
- **Deployed** the **sentiment analysis system** on a **Linux virtual machine** using **Google Cloud**, ensuring a fully **automated process** and enabling **real-time monitoring** of emerging **Twitter trends**.
- **Applied natural language processing (NLP) techniques**, including **tokenization, stopword removal, lemmatization, and TF-IDF vectorization**, reducing **dataset size by 30%** and enhancing **model accuracy by 15%**
- Built a **web-based interactive interface** for **real-time sentiment analysis**, allowing users to **enter custom text** or **retrieve live tweets** for **sentiment classification**. The system efficiently handles **500+ daily queries**, with an average **response time of under 2 seconds**.

EcoExportSuite | (HTML, CSS, JavaScript, ChatBot Implementation, API Integration) | **Link**   **November 2024**

- **Designed and developed** a **web-based export management tool** to optimize and streamline **international shipping operations**, reducing overall **shipment processing time** by over **30 hours per week**.
- **Integrated** multiple essential features, including a **chatbot for customer support**, a **real-time shipment tracker**, an **AI-powered document validator**, and a **shipment rate comparator**, assisting businesses in making **well-informed shipping decisions**.
- **Built** the **frontend** using **HTML, CSS, and JavaScript**, ensuring a **smooth and responsive** user experience across multiple devices. The system efficiently manages **over a million user interactions** while maintaining **reliability and responsiveness**.

Technical Skills

Languages: Java, Python, C++, JavaScript, HTML/CSS

Tools/Platforms: VS Code Jupyter Notebook, Git, GitHub, Google Cloud, Google Colab

Libraries/Frameworks: Pandas, NumPy, Scikit-Learn, Express.js, Node.js, React.js

Databases: MongoDB, MySQL

Specialized Skills: Natural Language Processing (NLP), Machine Learning, Data Analysis

Hackathons

Amazon Smbhav Hackathon | **Link**   **November 2024**

Participant   VIT Bhopal University

- **Ranked among the top 0.1%** of **100,000+ participants**, demonstrating **exceptional technical skills** and a strong ability to **solve complex problems efficiently**.
- **Developed** a **fully functional prototype** of **EcoExportSuite**, an **AI-powered export management platform**, within just **72 hours**, showcasing **rapid development and execution** skills under time constraints.
- **Integrated multiple cutting-edge features**, including a **chatbot for customer support**, a **real-time shipment   tracker**, an **AI-powered document validator**, and a **shipment rate comparator**, significantly **simplifying global trade operations** for businesses.

Certifications

- **IBM BlockChain Fundamentals** – IBM, April 2025
- **IBM BlockChain Developer** – IBM, April 2025
- **Ethnus MERN Full Stack** – Ethnus, April 2025
- **NPTEL Cloud Computing** – Ministry Of Education, 2024
- **Google: The Bits and Bytes of Computer Networking** – Google/Coursera, 2023