

# Abhinandan Sharma

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## EDUCATION

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- **Sardar Vallabhbhai National Institute of Technology**, Surat, Gujarat Nov 2022 - May 2026  
B.Tech in Electrical Engineering — **CGPA: 7.65**  
Relevant Coursework: Machine Learning, Probability and Statistics, Data Structures, Optimization Techniques

## PROJECTS

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- **WhatsApp Chat Analyzer – Interactive Message Insights Tool**  
*Python — Pandas — Matplotlib — Streamlit — Data Visualization*
  - Built a Streamlit web app to analyze exported WhatsApp chats, extracting insights from messages, stickers, links, and emojis
  - Handled format variations across Android and iOS chat logs, cleaning and processing over 10K+ messages efficiently
  - Visualized user activity, top contributors, busiest hours, emoji usage, and word frequency through interactive charts and dashboards
- **Stock Market Regime Detection via Unsupervised Learning**  
*Unsupervised ML — Time Series — Market Microstructure*
  - Engineered features (VWAP, volatility, order book imbalance, microprice) from high-frequency data
  - Applied PCA & clustering (KMeans, HDBSCAN, GMM) to segment market into behavioral regimes
  - Visualized and interpreted clusters (e.g., trending vs. mean-reverting, volatile vs. stable)
- **Movie Recommender System with Metadata and Trailers**  
*NLP — CountVectorizer — Streamlit — OMDb API*
  - Developed a content-based recommendation engine using cosine similarity over combined metadata (title, genres, overview, keywords)
  - Extracted top 5000 features with CountVectorizer; calculated similarity for 4K+ movies using Scikit-learn
  - Built an interactive Streamlit app with IMDb posters and manually curated YouTube trailers; future-ready for collaborative filtering

## SKILLS

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- **Programming Languages:** Python, C++, C, HTML, CSS
- **ML/DS Tools:** Scikit-learn, TensorFlow, XGBoost, PCA, Clustering, Statsmodels, Feature Engineering
- **Visualization & Web Tools:** Power BI, Excel, Matplotlib, Streamlit, Selenium, BeautifulSoup, Requests, MySQL
- **Soft Skills:** Communication, Teamwork, Time Management

## CERTIFICATIONS

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- Machine Learning – Stanford University (Coursera)
- Business Analytics (Industrial Training) – Graduation

## LEADERSHIP & RESPONSIBILITIES

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- Joint Treasurer – Centre for Human Resource Development
- Head – Publicity Committee, Sparsh'25 (Cultural Fest)

## INTERESTS

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- Exploring Python frameworks and developing innovative programs
- Passionate about ML applications and AI-driven products
- Curious about Gen-AI, LLMs, and real-time AI decision systems