

# 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**
- **Genius Public Sr. Sec. School**, Pilibanga, Rajasthan Apr 2020 – Mar 2021  
Higher Secondary Education (Class XII, CBSE) — **Percentage: 85%**
- **Blossom Academy**, Suratgarh, Rajasthan Apr 2018 – Mar 2019  
Secondary Education (Class X, CBSE) — **Percentage: 91%**

## PROJECTS

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- **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
- **Gen-AI Prompt-Based FAQ Bot (Prototype)**  
*LLM — NLP — OpenAI API*
  - Designed a proof-of-concept chatbot using GPT-3.5 for answering product FAQs with context awareness
  - Fine-tuned prompt templates and implemented fallback handling for out-of-scope queries
  - Explored real-time user input handling and scalability using Flask + LangChain

## 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:** Matplotlib, Power BI, Streamlit, Selenium, BeautifulSoup, Requests, MySQL, Excel
- **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