

Jenish Barvaliya

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PROFESSIONAL SUMMARY

Results-driven Information Technology student specializing in Machine Learning and Data Science with hands-on internship experience developing AI-driven solutions. Proficient in architecting and deploying end-to-end ML projects using Python, TensorFlow, and Scikit-learn. Demonstrated expertise in data pipeline development, model optimization, and predictive analytics. Seeking challenging international opportunities to apply strong foundation in data analysis and machine learning to solve complex business problems and deliver measurable impact in technology-driven organizations.

PROFESSIONAL EXPERIENCE

AI/ML Engineer Intern

May 2025 – June 2025

Elite Technocrats • Surat, Gujarat, India

- Developed and deployed AI-powered documentation automation tool using Django and React.js, reducing manual documentation time by 60%
- Architected robust data pipeline for preprocessing, validating, and transforming large-scale datasets, ensuring 99% data integrity for downstream NLP and machine learning workflows
- Integrated advanced machine learning, deep learning, and large language models (LLMs) to generate intelligent, context-aware technical content with 85% accuracy

TECHNICAL PROJECTS

Fantasy Cricket Team Predictor | Machine Learning

github.com/jenish2917/dream11-team-predictor

- Engineered ML recommendation engine for Dream11 fantasy teams with 78% prediction accuracy using real-time player data
- Implemented comprehensive data pipeline with web scraping using BeautifulSoup and Selenium
- Deployed ensemble learning approach combining Random Forest, XGBoost, and logistic regression models for optimal team selection

Spam Detection Classifier | Natural Language Processing

github.com/jenish2917/Email-sms-spam-detection

- Developed multi-class spam detection classifier achieving 94% accuracy and 92% F1-score using TF-IDF vectorization and supervised learning
- Implemented comprehensive text preprocessing pipeline with regex-based cleaning, stopword removal
- Compared performance of multiple algorithms including Naive Bayes, SVM, Random Forest, and Gradient Boosting for optimal model selection

Movie Recommendation System | Collaborative Filtering

github.com/jenish2917/movie-recommendation-system

- Built scalable recommendation system using collaborative filtering and content-based algorithms
- Implemented matrix factorization techniques (SVD, NMF) and cosine similarity algorithms for personalized movie suggestions
- Developed hybrid recommendation approach combining user-based and item-based collaborative filtering with 85% accuracy

EDUCATION

Bachelor of Technology (B.Tech) in Information Technology

Sarvajanik College of Engineering and Technology • Surat, Gujarat, India

Expected Graduation: May 2026

Cumulative GPA: 9.34/10.0

CERTIFICATIONS

Foundation Course on Green Skills and Artificial Intelligence

Skills4Future Program • AICTE & Edunet Foundation

Completed: March 2025

[View Certificate](#)

GenAI Powered Data Analytics Job Simulation

Forage • Data Analytics & AI Collections Strategy

Completed: June 2025

[View Certificate](#)

TECHNICAL SKILLS

Programming Languages:

Python, Java, C, JavaScript, SQL

Deep Learning Frameworks:

TensorFlow, Keras

Development Tools & Platforms:

Git, GitHub, Jupyter Notebooks

Machine Learning & Data Science:

Scikit-learn, Pandas, NumPy, Polars, Matplotlib, Seaborn, Natural Language Processing

Web Technologies & Automation:

Django, React.js, Selenium, Playwright, REST APIs