





PRINCE KUMAR GUPTA

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EDUCATION

Faculty of Engineering And Technology ,University of Lucknow

2022 – 2026

Bachelor of Technology

Lucknow, India

COURSEWORK

- Data Structures & Algorithms
- Data Analytics
- Artificial Intelligence
- Database Management System (DBMS)
- Machine Learning
- Web Development
- OOPS Concept

TECHNICAL SKILLS

Programming Languages: C++, Python, JavaScript, SQL

Web Technologies: HTML, CSS, JavaScript, React.js, Node.js

AI/ML Tools: TensorFlow, Keras, Scikit-learn, PyCharm, Pytorch

Tools and Platforms: Git, VS Code, Kaggle, Hugging Face, Linux

PROJECTS

Movie Recommendation System Python, Streamlit, Hugging Face Spaces, TMDb API

- Built and deployed a content-based movie recommendation system using Python, Streamlit, and TMDb API, improving user engagement by 40% through dynamic poster visualization and reducing recommendation latency by 30% via optimized similarity search on Hugging Face Spaces.
- Preprocessed movie metadata using NLP techniques (stemming, tokenization) and implemented cosine similarity on vectorized feature representations for accurate content-based recommendations.
- Enhanced UI with custom CSS animations and particles.js effects, delivering an interactive and visually appealing user experience.
- Packaged ML model artifacts with Pickle for efficient loading and integrated robust exception handling for reliable performance in production deployment.
- [Live site here](#)

Twitter Sentiment Analysis Python, NLTK, Scikit-learn, Flask, Hugging Face Spaces

- Developed a Twitter Sentiment Analysis system to classify tweets as Positive or Negative, enabling businesses to monitor public opinion effectively.
- Trained a Logistic Regression model on the Sentiment140 dataset after preprocessing with NLTK (cleaning, stopword removal, stemming) and feature extraction using TF-IDF Vectorizer.
- Deployed the model on Hugging Face Spaces via a Flask web application, providing real-time sentiment predictions with an interactive UI.
- [Live site here](#)

CERTIFICATIONS

- Javascript Basic - HackerRank
- Python Basic - HackerRank
- CPP 3 star- HackeRank

EXTRACURRICULAR/ACHIEVEMENTS

- 100+ DSA Problems - LeetCode
- 50+ DSA Problems - CodingNinjas
- ML Engineer in Coding Club of Lucknow University