

KUNAL

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EDUCATION

2023–2027 (present)	BTech in Computer Science (Data Science), PEC	(CGPA: 7.93/10)
2022	Government Model Senior Secondary School, Sec 22-A	(CBSE 12th: 91.2%)
2020	L.D.C. Jain Public School, Punjab	(CBSE 10th: 81.8%)

PROJECTS

1. CineMatch: Full Stack NLP-based Movie Recommendation System

Tech Stack: NLP, React, Django, Kaggle MovieLens 1M Dataset

- Built a movie recommendation system using NLP techniques to analyze user preferences.
- Implemented Django (backend) and React (frontend) for a responsive UI.
- Processed 140K+ movie and genre records from Kaggle MovieLens 1M dataset.
- Displayed trailers with smooth performance and accurate recommendations.

2. LearnPath AI: Smart Learning Roadmap Generator

Tech Stack: Django, LangChain, OpenRouter (Llama 3.3 70B), MongoDB, ChromaDB, YouTube API

- Built an AI-based platform that creates personalized learning plans for any skill or subject.
- Used LangChain and OpenRouter LLM for smart recommendations and chat memory.
- Integrated YouTube and course data for content discovery with semantic search via ChromaDB.
- Designed a user-friendly Django app with progress tracking and adaptive study plans.

3. Image Caption Generator (CNN + LSTM)

Tech Stack: Deep Learning, Python, Streamlit, Kaggle 8K Dataset

- Built a caption generator with 0.74 accuracy using 8K images.
- Demonstrated feasibility with small dataset; scalable to 50K+ with GPU.
- Integrated into an interactive Streamlit application.

SKILLS

Programming Languages	C++, Python, R, HTML, CSS, SQL, JavaScript
Computer Fundamentals	Data Structures, OOP, OS, DBMS, CN
Web Development	React.js, Django, MySQL
Tools	VS Code, Google Cloud, Jupyter Notebook, Git, GitHub
Machine Learning	Classification, Regression, Clustering, NLP, OpenCV(cv2), Data Processing, Data Visualization
Deep Learning	ANN, CNN, RNN, LSTM, Langchain, TensorFlow

CERTIFICATIONS & ACHIEVEMENTS

- NASA Space Exploratory Hackathon – Showcased innovative space exploration project.
- eSummit Hackathon – Developed a full solution under time constraints.
- NLP Certification – Covered text classification, sentiment analysis.