

Jatin Kumar

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SKILLS

Languages: C++, Python

Frameworks: NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, Streamlit, Flask, Fast API, Scrum

Tools: Ubuntu, Jira, Selenium Ide, GitHub, Kaggle, VS Code, PyCharm

Soft Skills: Problem Solving, Communication Skills, Adaptability, Collaborative Mindset

PROJECTS

Movie Recommendation System | *Machine Learning, NumPy, Pandas, GitHub, StreamLit* | [GitHub](#) Nov' 25

- Engineered a Content-Based Movie Recommendation System using Python and ML techniques to deliver personalized movie suggestions.
- Implemented TF-IDF and cosine similarity for feature-driven recommendations with optimized performance.
- Developed an interactive Streamlit web app for real-time user input and dynamic recommendations.
- Managed end-to-end development and deployment using GitHub, ensuring clean version control and maintainable code.

Search Auto-Complete System | *Trie Data Structure, GitHub, C++* | [GitHub](#) Mar' 25

- Designed a high-performance autocomplete system with a Trie data structure to give quick and accurate real-time search suggestions that improves the user experience.
- Executed efficient ranking logic to present the most relevant top results dynamically as the user types.
- Architected an intelligent prefix-matching engine that accurately handles partial and misspelled queries.
- Optimized data storage and lookup operations, reducing access time by around 35% and helping the search system respond faster for a better user experience.

TRAINING

Competitive programming | *Lovely professional University* Jun' 25 – Jul' 25

- Cultivated a strong understanding of competitive programming by practicing many problems and learning advanced data structures and algorithms.
- Focused on writing clean and efficient code by improving logic, reducing complexity, and checking how the code performs.
- Solved 500+ challenging problems across multiple coding platforms, strengthening consistency, accuracy, and overall problem-solving speed.

CERTIFICATES

- Competitive programming | [AlgoTutor](#) Jul' 25
- Artificial Intelligence | [InternsElite](#) Jan' 24

ACHIEVEMENTS

- Reached a contest rating of 1962 (Knight) on LeetCode and ranked in the top 3.52% among 788k+ users. Dec' 25
- Achieved a peak rating of 1130 on Codeforces by regularly taking part in rated contests and steadily improving performance over time. Oct' 25
- Earned a contest rating of 1935 (Specialist) on CodingNinjas. Aug' 25

EDUCATION

Lovely Professional University

Bachelor Of Technology - Computer Science and Engineering; **CGPA: 8.9**

Phagwara, Punjab

Since Aug' 23

BRD Vidyapeeth

Intermediate; **Percentage: 92%**

Karnal, Haryana

Mar' 22 – Mar' 23

BRD Vidyapeeth

Matriculation; **Percentage: 78%**

Karnal, Haryana

Mar' 20 – Mar' 21