Ayush Khatri

AI & ML • Web-Dev • Data Structures • APIs
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Proficient in C++, DSA,Javascript, OOP, DBMS, and SQL. Working knowledge of Python and Machine Learning. Motivated learner with a strong interest in problem solving and building efficient and scalable solutions.

EDUCATION

Graphic Era Hill University   **Dehradun, India**
Bachelor of Technology - Computer Science Engineering   *Jun 2022 - Present*

The Horizon School   **Dehradun, India**
Class XII   *Jun 2022*

The Horizon School   **Dehradun, India**
Class X   *Jun 2020*

SKILLS SUMMARY

- **AI & Automation:** Pandas, NumPy, Scikit-Learn, LLM Prompt Engineering
- **APIs & Backend:** FastAPI, Flask, REST APIs.
- **Cloud & Tools:** AWS, GitHub, Excel
- **Languages:** C++, C, JavaScript

WORK EXPERIENCE

NLP Intern | Infosys Springboard(Remote) | Github Repository   **Sept 2025 - Nov 2025**
- Developed an end-to-end NLP platform processing user documents via a Flask RESTful API and 5 statistical/ML techniques (VADER, TextBlob, LDA, NMF, TF-IDF) to deliver sentiment analysis and topic modeling.
- Engineered a custom 7-factor extractive summarization algorithm combining TF-IDF, positional scoring.
- Built a responsive React frontend with drag-and-drop functionality, optimizing the full-stack pipeline to serve comprehensive analysis results.
- Ensured system reliability by resolving critical backend bottlenecks (type safety, data structures).

PROJECTS

Chess Game - OOP | Github Repository   **Dec 2025**
- Developed command-line chess game in C++ demonstrating core OOP principles including inheritance, polymorphism, encapsulation, and abstraction across a 3-file modular architecture.
- Implemented complete chess rule engine supporting all piece movements, check/checkmate detection, stalemate recognition, castling, en passant, and pawn promotion.
- Designed class hierarchy with abstract base Piece class and 6 derived piece classes, utilizing virtual functions for move generation and composition pattern for board-piece relationships.
- Built recursive attack detection system and move validation logic to ensure legal gameplay with real-time board state management.

Personality Classification System | LINK   **Sep 2025**
- Developed ML system using K-Means clustering to classify 5 personality types based on Big Five traits model.
- Constructed Flask web application with SQLAlchemy ORM storing 50-question responses and real-time predictions.
- Executed a preprocessing pipeline for 50 questionnaire items, including reverse scoring for 20 negatively keyed entries, ensuring clean ML input.

CERTIFICATES

AWS Cloud Quest: Cloud Practitioner | CERTIFICATE   **Mar 2025**
- Mastered AWS fundamentals across compute, networking, IAM, storage, and cloud deployment workflows.
- Completed 8 AWS learning quests focused on scalable architecture, cost optimization, and cloud security.

Introduction to Psychology | CERTIFICATE   **Jun 2025**
- Completed Yale University's Introduction to Psychology course with a 94.33 grade, demonstrating self-directed learning and mastery of complex concepts in cognition and human behavior.
- Acquired foundational knowledge in neurology, social psychology, and perception to enhance critical thinking and understanding of decision-making processes.

INTERESTS

Interests: Chess (Playing & Teaching), Solving Puzzles, Team Sports (Football, Basketball), Reading, Journaling, Travelling.