Ayush Khatri

AI & ML • Web-Dev • Data Structures • APIs
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EDUCATION

Graphic Era Hill University   **Dehradun, India**
*Bachelor of Technology - CSE **(CGPA: 7.4/10)***   *Jun 2022 - Present*

The Horizon School   **Dehradun, India**
*Class XII **(89.6%)***   *Jun 2022*

The Horizon School   **Dehradun, India**
*Class X **(89.6%)***   *Jun 2020*

SKILLS SUMMARY

- **Core Subjects:** DSA, OOP, DBMS, SDLC
- **Web Development:** HTML, CSS, JavaScript
- **APIs & Backend:** FastAPI, Flask, REST APIs.
- **Cloud & Tools:** AWS, GitHub, MS Office
- **Languages:** C++, C, JavaScript, Python

WORK EXPERIENCE

NLP Intern │ Infosys Springboard(Remote) │ Github Repository   **Sep 2025 - Nov 2025**
- Built an end-to-end web app using React.js and Flask to process and visualize document analysis via a RESTful API.
- Implemented a hybrid model strategy combining VADER & TextBlob for sentiment analysis and LDA & NMF for robust topic modeling.
- Integrated a statistical extractive summarization engine to generate instant executive briefs from long-form text.
- Streamlined Flask API response handling to process large text files with minimal latency.

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 │ Github Repository   **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

Chess (2000 elo & Teaching), Solving Puzzles, Playing team Sports (Football, Basketball), Reading books, Journaling, Travelling.