

Jai Aggarwal

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EDUCATION

- **Chandigarh University**
Bachelor of Engineering (BE) - Computer Science And Engineering (AIML); CGPA: 7.71 Mohali, India
2022 - Present
- **New Look Uchtar Madhyamik Vidhyalaya**
Class XII, Percentage - 84.6% Kota, India
2020 – 2021
- **Secondary School S D Public School**
Class X, Percentage- 91.4% Muzaffarnagar, India
2018 – 2019

SKILLS SUMMARY

- **Programming:** C, C++, Python, SQL
- **Backend & APIs:** Flask, REST API design, JSON-based services
- **Databases:** MySQL, SQLite
- **Tools:** MS Excel, Power BI, Git
- **Automation & ML:** TensorFlow, scikit-learn
- **Core CS Concepts:** Data Structures & Algorithms

PROJECTS

- **Student Task Manager API - Flask, REST, SQLite** Sep 2025
 - Developed a RESTful backend service in Python (Flask) with full CRUD operations, JSON-based APIs, and SQLite for persistent data storage.
 - Worked in a Linux environment using Git, focusing on API reliability, modular design, and CI/CD-ready backend architecture.
- **Chatbot with Feedback System - Python, NLP** Feb 2024
 - Built a Python-based conversational chatbot with modular workflows to simulate human-like interactions.
 - Implemented feedback-driven automation logic and reusable components to adapt responses dynamically.
- **Real-Time Emotion and Facial Recognition - Computer Vision, ML** Mar 2023
 - Implemented a system for real-time emotion detection and facial recognition to analyze users' emotional states instantly.
 - Developed as part of a research project certified by ICAIA 2023 (International Conference on Artificial Intelligence and its Applications).
 - Focused on user feedback assessment using a combination of computer vision and AI techniques.
- **Text Summarization Tool - Python, NLP** Jan 2025
 - Built a summarization tool that condenses long-form articles into concise summaries using NLP techniques.
 - Conducted literature review and background research to explore various text summarization methods including extractive and abstractive approaches.
 - Contributed to the algorithm design and evaluation of summary relevance and accuracy.

PUBLICATIONS

- **Emotion Detection using Machine Learning: A Review** – Published in ICAIA 2023 proceedings.

CERTIFICATIONS

- Oracle Cloud Infrastructure 2024 Generative AI Certified Professional - Oracle
- What is Data Science? - IBM
- Introduction to Big Data with Spark and Hadoop - IBM

LEADERSHIP & EXTRACURRICULAR

- **Department of Student Welfare (DSW), Chandigarh University** – Event organization and coordination.
- **Training & Placement Class Representative**– Coordinated placement communication.