

Jai Aggarwal

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EDUCATION

- | | |
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| <ul style="list-style-type: none">• Chandigarh University
<i>Bachelor of Engineering (BE) - Computer Science And Engineering (AIML); CGPA: 7.71</i>• New Look Uchtar Madhyamik Vidhyalaya
<i>Class XII, Percentage - 84.6%</i>• Secondary School S D Public School
<i>Class X, Percentage- 91.4%</i> | Mohali, India
2022 - Present |
| | Kota, India
2020 – 2021 |
| | 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

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| <ul style="list-style-type: none">• Student Task Manager API - Flask, REST, SQLite | Sep 2025 |
| <ul style="list-style-type: none">◦ 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. | |
| <ul style="list-style-type: none">• Chatbot with Feedback System - Python, NLP | Feb 2024 |
| <ul style="list-style-type: none">◦ 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. | |
| <ul style="list-style-type: none">• Real-Time Emotion and Facial Recognition - Computer Vision, ML | Mar 2023 |
| <ul style="list-style-type: none">◦ 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. | |
| <ul style="list-style-type: none">• Text Summarization Tool - Python, NLP | Jan 2025 |
| <ul style="list-style-type: none">◦ 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.