

Sumit Kumar Mehta

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SKILLS

- **Languages:** C++, JavaScript, C, Java, Python
- **Frameworks:** HTML, CSS and Flask
- **Tools/Platforms:** MySQL, GitHub, AWS, Linux
- **Soft Skills:** Leadership, Team Player, Cognitive Flexibility, Adaptability

PROJECTS

- Cross-LLM Validator (GenAI Tool) | [\[GitHub\]](#)** August 2025
 - Developed a web-based tool using **Python** and **Streamlit** to cross-validate and compare outputs from multiple Large Language Models (LLMs).
 - Integrated **REST APIs** (e.g., OpenAI/Gemini) to automate response quality assessment and reduce hallucination risks.
 - Designed a modular `llm_handler` to switch between different models dynamically for real-time testing.
 - **Tech Stack:** Python, Streamlit, LLM APIs, Prompt Engineering.
- Contact Management System (C++) | [\[GitHub\]](#)** June 2025
 - Engineered a persistent console-based application using **C++ File Streams (fstream)** for real-time data storage and retrieval (.txt database).
 - Implemented **CRUD operations** (Create, Read, Update, Delete) using **STL Vectors**, ensuring efficient dynamic memory management.
 - Designed a modular architecture based on **OOP principles** (Encapsulation, Constructors) to separate data logic from the user interface.
 - **Tech Stack:** C++, Standard Template Library (STL), File Handling, OOP.
- DecorAI - AI Interior Design Chatbot | [\[GitHub\]](#)** March 2025
 - Developed a full-stack AI chatbot using **Flask (Python)** and **Bootstrap** to provide personalized interior design recommendations.
 - Integrated **OpenRouter API** to access advanced LLMs, engineering prompts to simulate an expert decorator persona.
 - Implemented **Cross-Origin Resource Sharing (CORS)** to ensure secure and seamless communication between the frontend and backend.
 - Designed the architecture to be **Serverless-ready (AWS Lambda)**, optimizing for scalable and cost-effective deployment.
 - **Tech Stack:** Python, Flask, OpenRouter API, AWS Lambda (Serverless), Bootstrap.

SUMMER TECHNICAL TRAINING

- Data Structures & Algorithms (C++) | [AlgoTutor](#) [\[Link\]](#)** June 2025 - August 2025
 - Completed a 6-week intensive training on C++ fundamentals, OOPs, and DSA.
 - Mastered core OOP principles: **Encapsulation, Polymorphism, Inheritance, and Abstraction**.
 - **Solved 50+ coding problems**, strengthening logic building in Recursion, Sorting, and Linear Data Structures.
 - Analyzed Time and Space complexity (Big-O) to optimize code performance.

CERTIFICATES

- **AWS Academy Graduate - AWS Academy Cloud Foundations** , AWS Academy [\[Link\]](#) May 2025
- **Introduction To Internet Of Things (Elite)**, IIT Kharagpur (via NPTEL) [\[Link\]](#) April 2025
- **Software Development Processes and Methodologies**, University of Minnesota (via Coursera) [\[Link\]](#) May 2024

ACHIEVEMENTS

- **Part of the Operations Support Team for SkyEsports during the MOGO National Inter-College Valorant Championship**
Worked with the SkyEsports staff to assist with event operations, match coordination, backend support, and communication handling.

EDUCATION

- **Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 7.52 Since August 2023
- **Kendriya Vidyalaya No. 4** Bathinda, Punjab
Intermediate; Percentage: 79.8 April 2021 - March 2023
- **Army Public School** Bathinda, Punjab
Matriculation; Percentage: 75 April 2018 - March 2019