

About


2023–2027 **BML Munjal University**,
(expected) *B.Tech in Computer Science and Engineering (CSE)*, CGPA: 8.83 (current).

Skills




Programming Languages C++, Python, Java, JavaScript, HTML, CSS
Databases MySQL, MongoDB
Data Analysis NumPy, Pandas, Matplotlib, Seaborn
ML/AI Frameworks Azure (exploring), TensorFlow, scikit-learn, Langchain/Huggingface (beginner)
WebDev Frameworks Flask, Express.js, Streamlit (beginner)

Projects


Dec 2023 **Namami Gange (Chatbot).**

- Developed as part of SIH Finals 2023 (Hyderabad), aimed at spreading awareness among tourists and children about the Namami Gange program.
- Designed and developed using HTML, CSS, and JavaScript.
- Integrated with OpenAI-powered APIs via Flask to provide real-time responses based on user input.
- Specifically trained to answer queries related to the Namami Gange program.  **GitHub Repo**

Aug 2023 - **C++/Java Projects.**

- Current
- 1. Breakout Ball Game (Java):** Developed an engaging arcade-style game using Java, enhancing **OOP** and **multithreading** skills.
 - Utilized libraries such as JFrame, ActionListener, and Graphics2D.  **GitHub Repo**
 - 2. Library Management System (C++/MySQL):** Designed an efficient system with features like student management and book availability/borrowing.
 - Gained familiarity with SQL connectors and system libraries.  **GitHub Repo**
 - 3. Builder/Factory Patterns, C++11/17 Exploration**
 - Created a pizza factory system using the static factory pattern.
 - Developed a simple calculative tree with post-order traversal utilizing C++17 features (`std::optional`).
 - Implemented a bank account system leveraging C++11 features (`auto`, `lambda` expressions, `std::unique_ptr`, `std::function`).  **GitHub Repo**

June 2024 **CRUD Application.**

- Tech Stack:** HTML, CSS, JavaScript (Express), Node.js, MySQL
- Utilized HTML, CSS, and JavaScript for UI and routing (Express.js), with Node.js for runtime and MySQL for database management.
- Streamlined the application to use a single stored procedure within the database for improved readability and reduced clutter.  **GitHub Repo** (Stored Proc in readme.)

Academic and Extracurricular Activities

- SIH'23 Finalist (Team Leader), PS-1290
- Achieved perfect 10-grades in both Object-Oriented Programming (Sem 1) and Data Structures and Algorithms (Sem 2).
- Model United Nations - Design Team