

# Aditya Goyal

LinkedIn: <https://www.linkedin.com/in/aditya-goyal18/>  
Portfolio: <https://port-folio-two-flame.vercel.app/>  
GitHub: <https://github.com/aditya-goyal1694>  
LeetCode: [https://leetcode.com/u/Aditya\\_Goyal1694/](https://leetcode.com/u/Aditya_Goyal1694/)

Email: adityamr.1694@gmail.com  
Mobile: 6307978729

## Skills Summary

- **Languages:** C++, Python, R, shell scripting
- **Libraries:** FastAPI, Express.js, Node.js, React.js, NumPy, Pandas, Matplotlib, Seaborn, MySQL, MongoDB
- **Tools:** Docker, Jupyter Notebook, Google Colab, Git-GitHub, Microsoft Excel, Tableau
- **Soft Skills:** Problem-solving, Time Management, Adaptability, Leadership, Teamwork, Critical Thinking

## Projects

### Foodie Fiesta | Personal Project

Feb 2025 – April 2025

- Built Chat-à-la-Carte, a Dialogflow-based chatbot to assist users in ordering food from Foodie Fiesta.
- Integrated the chatbot with a FastAPI backend and MySQL database, managing user queries for menu items and restaurant services.
- Embedded the chatbot interface into the React website via an iframe for seamless user interaction.
- Containerized the application using Docker, deployed it to production, and implemented CI/CD pipelines via GitHub Actions.
- Future plans include enhancing chatbot responses, integrating order tracking, and expanding menu options.

**Tech:** Dialogflow, FastAPI, React, MySQL, Docker, GitHub Actions

(Purpose: Provide an AI-powered chatbot for an enhanced restaurant ordering experience.)

**Link:** <https://foodie-fiesta-frontend.vercel.app/>

### Custom STL | Personal Project

July 2024 – Oct 2024

- Developed a custom implementation of the Standard Template Library (STL) in C++, featuring a wide range of data structures.
- Enhanced the standard functionalities by adding custom methods for sorting, finding max and min elements, and rotating arrays or lists.
- Implemented advanced algorithms such as Breadth-First Search (BFS) and Depth-First Search (DFS) for graph traversal.
- Designed the project for ease of use, allowing integration into any C++ program by simply including header files and utilizing custom classes.
- Future work includes expanding functionality with complex algorithms, optimizing performance, and adding parallel processing capabilities.

**Tech:** C++

(Purpose: Provide a customizable, efficient alternative to STL with extended features for common data structures.)

**Link:** <https://github.com/aditya-goyal1694/CustomSTL>

### US-Accidents EDA | Personal Project

Sep 2024 – Oct 2024

- Conducted an in-depth exploratory data analysis (EDA) on a Kaggle dataset containing 7.7 million records of traffic accidents in the U.S.
- Implemented the project using Python for data manipulation and analysis with a focus on uncovering patterns related to accident frequency, geographical distribution, and temporal trends.
- Integrated visualizations and geospatial mapping to highlight insights, such as the absence of data from New York, accident hotspots, and peak accident times.
- Addressed key questions like accident frequency based on weather, time, and location, and identified states and cities with the highest number of accidents.
- Future work includes exploring accident trends year-over-year and per capita analysis across states.

**Tech:** Python, pandas, seaborn, folium, opendatasets

(Purpose: Analyse traffic accident patterns in the U.S. and provide actionable insights.)

**Link:** <https://github.com/aditya-goyal1694/US-Accidents-EDA>

## Certifications

### Cloud Computing | NPTEL

- Completed a 12-week NPTEL course (Elite, 67%), covering cloud models, virtualization, resource management, and security.

### Python, DS-ML Integrated Track | CIPHERSCHOOLS

- Summer Training: Focused on Python for data cleaning, analysis, and Tableau for visualization.

### PROMPT ENGINEERING FOR CHATGPT | COURSERA

- Learned techniques to craft effective prompts for optimizing responses from AI models like ChatGPT

## Education

### Lovely Professional University

Bachelor of Technology - Computer Science and Engineering; CGPA: 9.01

**Courses:** Object Oriented Programming, DSA, Computer Networks, Operating Systems, DBMS, Data Science, DevOps

Phagwara, Punjab, India

Aug 2022 – May 2026