Aditya Goyal

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Skills Summary

- **Languages**:   C++, Python, Go, R, shell scripting
- **Libraries:**   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

Education

Lovely Professional University   Phagwara, Punjab, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 9.01   August 2022 – May 2026
Courses: Object Oriented Programming, DSA, Computer Networks, Operating Systems, DBMS, Data Science, DevOps

Projects

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

Custom STL | Personal Project   July 2024 – Sep 2024
- Developed a custom implementation of the Standard Template Library (STL) in C++, featuring a wide range of data structures like vectors, stacks, queues, linked lists, trees, and graphs.
- Enhanced the standard functionalities by adding custom methods for sorting, finding maximum and minimum 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

Foodie Fiesta | Personal Project   Feb 2025 – Mar 2025
- Developed a chatbot, Chat-à-la-Carte, using Dialogflow to assist users in ordering food from Foodie Fiesta.
- Integrated the chatbot into a FastAPI backend and MySQL database, handling user queries related to menu items and restaurant services.
- Designed the chatbot interface to be embedded in a website via an iframe, enabling seamless interaction.
- Future work includes enhancing chatbot responses, integrating order tracking, and expanding menu options.
  Tech: Dialogflow, FastAPI, MySQL
  (Purpose: Provide an AI-powered chatbot for an enhanced restaurant ordering experience.)
  Link: https://github.com/aditya-goyal1694/Foodie-Fiesta

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.