Kuldeep Kohli

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Academic Details

B.Tech in Computer Science and Engineering 2023 − Present
Graphic Era Hill University, Dehradun, India
Current Semester: 5th CGPA: 8.3/10

Fields Of Interest

Web Development, Software Engineering, Cybersecurity

Data Structures & Algorithms, Cloud Computing, Full Stack Development

Technical Skills

Languages: C++, Python, Java
Frontend: React, Tailwind CSS
Backend: JavaScript, REST APIs
Database: MySQL, Oracle
Tools/Platforms: Git, GitHub, OpenCV

Projects

MapMate: your travel planner (Travel planning website) *JavaScript, HTML, CSS, Node.js.*

Created a travel planning web application using Node.js and Express to help users plan trips by calculating distance, duration, and route between two locations using OpenRouteService API.

Student Management and Attendance System *Python, MySQL*
Developed a desktop-based Student Management and Attendance System using Python (Tkinter) and MySQL to manage student records and attendance with admin login, search, update, export, and attendance tracking features.

AI-Powered Process Scheduler *React, Node.js, Python, Github*
Developed an intelligent CPU scheduling system that enhances traditional algorithms (FCFS, SJF, Priority, RR) using AI-based prediction logic. Implemented workload analysis to automatically choose the most optimal scheduling policy, reducing average waiting and turnaround time. Built a GUI to visualize Gantt charts, process queues, and performance metrics.

Flight Reservation System *React, Node.js, SQL, Tailwind css, JavaScript, Github*
SkyFly - Flight Reservation System is a full-stack web application that allows users to search for flights, select seats, and book tickets online. It features a modern React frontend with Tailwind CSS styling, a Node.js/Express backend with MySQL database, and includes admin functionality for managing aircraft, airports, and flights. The system handles seat selection, payment processing, and booking management with user authentication and role-based access

Activities

Project-Based Learning (PBL) –Map mate: Your travel planner *2024*
Led a 4-member team, managed GitLab repositories, conducted code reviews, and coordinated sprint planning.

Project-Based Learning (PBL) –Flight Reservation System *2025*
Directed a four-person team while handling GitLab repository oversight, reviewing code, and coordinating sprint planning activities.

Certificates

NPTEL – Database Management Systems
Completed an in-depth course covering SQL, relational schema design, normalization, transactions, concurrency control, and indexing techniques.
Link: https://drive.google.com/file/d/17Q_GZ7G0FdHaYFhC3MgOrsWeds6r4nqz/view?usp=sharing

NPTEL – Google Cloud Computing Foundations
Gained hands-on understanding of cloud fundamentals, virtualization, cloud infrastructure, IAM, networking, storage, and Google Cloud services such as Compute Engine, Cloud Storage, and BigQuery.
Link: https://drive.google.com/file/d/19pXjKsrm9PmswgqhYqADqZRyiKnEkJZV/view?usp=sharing

NPTEL – Introduction to Internet of Things (IoT)
Learned core IoT concepts including sensors, embedded systems, IoT architecture, communication protocols, and real-world IoT applications.
Link: https://drive.google.com/file/d/1xJvbEL1_1_LH8cHmIG70qZydYFoy0rZ1/view?usp=sharing

Achievements

- Solved over 250+ DSA problems on LeetCode, GeeksforGeeks, and HackerEarth.

Interest And Hobbies

- Solving puzzles, chess, exploring technology.