Yash Raj

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Education

University of Petroleum and Energy Studies , Dehradun　　　　　　　July 2022 – June 2026
- B.Tech in Computer Science (specialization in Cloud Computing)
- **Main Coursework:** Data Structures , Design and Analysis of Algorithm , Computer Architecture, Operating System , Software Engineering , Computer Networks.

Technologies

Languages: Java , Python , JavaScript

Database: MySQL

Technologies/Tools: Visual Studio Code , Git , Github , AWS , Docker

Frontend: HTML , CSS

Problem Solving: Data Structures and Algorithms

Projects

Text File Manipulator　　　　　　　Oct 2024
- Developed a robust CLI application in Java, specifically designed to execute over 10+ unique text file operations including editing, sorting, and reversing content for seamless user interaction..
- Utilized efficient DSA techniques for performance optimization and implemented robust error handling for large text file operations and reducing runtime failures by 95%.
- Languages/Tools Used: Java , DSA

Mentor Allocation System　　　　　　　Jan 2025
- Built a web system to automate mentor-project assignments based on expertise and preferences.
- Designed user-friendly interfaces and integrated backend with database for managing mentor-mentee data and reducing manual coordination time by 70% in academic projects.
- Languages/Tools Used:HTML, CSS, Javascript, MySQL

Experience

Parivartan Social Foundation　　　　　　　June -July 2023
- Developed a custom website for tracking student attendance in rural schools, integrated with Google Sheets to enable real-time data updates and monitoring.
- Reduced manual effort by 60% through automation, improving tracking accuracy for 100+ rural students.

Project Intern at IBM　　　　　　　June - July 2025
- Worked on a project titled Cloud Based Market Research Tools to collect and analyze consumer trends.
- Built a cloud-integrated dashboard to visualize insights from structured and unstructured data from 100+ responses.
- Leveraged IBM Cloud and third-party APIs to create scalable market research tools, reducing manual report generation time by 40%.

Certifications

- AWS Academy Cloud Web Application Builder
- AWS Academy – Cloud Architecting
- AWS Cloud Practitioner Essentials
- CODSOFT - Web Development