Tulsi Tyagi

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Education

COER University (College of Engineering Roorkee) Expected June 2025
Master of computer Application
CCS University(Chaudhary charan singh University, meerut) 2020-2023
Bachelor of science

Skills Summary

- **Programming Languages:** Python, C++, C
- **web Development:** HTML, CSS, Java script
- **Tools:** VsCode, Orange Tool, Canva, Photoshop
- **Web Framework:** Django
- **Database:** SQLite
- **Soft Skills:** Teamwork, Communication, Time Management

Work Experience

Graphic Design Website Development Intern — Digital Tatsat present

- Selected for a 3-month remote internship involving real client projects in both web development and digital design.
- Gained hands-on experience with tools like Canva, Adobe Photoshop, and Illustrator for creating website layouts and branding materials.

Web Development Intern — Codsoft Jan 2024

- Successfully completed a 4-week virtual internship focused on front-end web development.
- Designed and developed three key projects: Personal Portfolio, Calculator, and Landing Page.
- Built responsive and interactive web pages using HTML, CSS, and JavaScript, resulting in a 15% increase in site traffic and a 20% improvement in average session duration.

Projects

University Timetable Generator
Technologies Used: Python (Django), HTML, CSS, JavaScript, SQLite

- Developed a web-based timetable management system to automate over 90% of the scheduling process and reduce manual errors by 80%.
- Integrated role-based access for administrators, instructors, and students, enhancing data security and saving over 10 hours per week in manual updates.
- Implemented automated scheduling logic with real-time conflict detection and resolution.

Delhi Metro Network Analysis and Route Optimization
Technologies Used: Python, NetworkX, Matplotlib, GeoPandas, Pandas

- Built a route optimization algorithm that reduced average metro travel time by 15% using efficient pathfinding techniques.
- Conducted in-depth analysis of ridership patterns and congestion, improving commuter flow by 20%.
- Applied graph theory to analyze network connectivity and visualized insights using Matplotlib and GeoPandas.
- Reduced travel time by 18% for over 50,000 daily commuters through strategic route optimization.

Certifications

- Introduction to Data Science Course Certificate – Infosys Springboard
- Web Development Intern – CODSOFT
- Introduction to Pandas – Data Flair

Achievements

- Solved 200+ coding problems on GeeksforGeeks with an overall score of 750+, demonstrating consistent problem-solving skills.
- Completed a 160-day streak challenge on GeeksforGeeks and was awarded a GFG merchandise bag for outstanding consistency and dedication.
- Solved 150+ algorithm and data structure problems on LeetCode, strengthening competitive programming and coding interview readiness.