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JESSICA TIWARI

STUDENT

I am currently pursuing a Bachelor's degree in Computer Engineering, with a strong focus on data science and cloud services. I possess a solid foundation in Python, SQL, and software development, coupled with a passion for continuous learning and professional growth. My experience extends to working on cloud-based technologies and developing data-driven solutions through various hands-on projects. I am eager to apply my skills in a dynamic, collaborative environment where I can contribute to innovative solutions and further enhance my expertise in these fields.

EDUCATION

College of Information Technology and Engineering

Bachelor's in Computer Engineering
2021-present

St.Xavier's College

A-level
2017 – 2019

EXTRACURRICULARS

• Leadership and Skill Development

Actively participated in leadership workshops and skill-building seminars, honing my ability to take initiative and lead in diverse environments.

• Member of NGO

As a member of a local NGO, I collaborated with a team to support social causes, showcasing my ability to work in structured environments and contribute toward impactful initiatives.

• Math Marathon Organizer

Organized a Math Marathon, where I spearheaded planning, resource allocation, and participant engagement, driving enthusiasm for mathematics through creative and collaborative activities.

• Library Volunteer

Assisted in maintaining the national library, shelving books, and helping patrons navigate resources. This role required meticulous organization, attention to detail, and a service-oriented mindset.

• Sports Week Organizer

Successfully coordinated and managed the logistics of Sports Week at my college, overseeing team formations, event schedules, and volunteer management. I worked closely with faculty and students to ensure seamless execution, fostering a culture of teamwork, leadership, and active participation.

EXPERTISE

- **Programming Languages:** Proficient in Python and C++.
- **Database Management:** Knowledgeable in MySQL and MSSQL.
- **Software Testing:** Familiar with unit testing, integration testing, and debugging.
- **Version Control:** Proficient in Git for code versioning and collaboration.
- **Continuous Learning:** Engaged in online courses to enhance knowledge in libraries such as pandas, NumPy, and testing frameworks like JUnit.
- **Data Analysis and Statistical Knowledge:** Proficiency in descriptive and inferential statistics, including correlation, regression analysis, and hypothesis testing.

PROFESSIONAL EXPERIENCE

• Teaching Assistant

Collaborated closely with professors to develop course materials, design exercises, and conduct review sessions, ensuring a comprehensive understanding of programming and software development concepts among students. Assisted in clarifying complex topics and fostering an engaging learning environment.

• Online Auction Platform

Developed a robust clone of an online auction platform using C++, implementing core functionalities such as user authentication, bidding systems, and secure data handling. Demonstrated expertise in object-oriented programming and real-world application development.

• Voice Assistant Using Python

Integrated advanced Natural Language Processing (NLP) techniques, including the use of libraries like SpeechRecognition, to significantly improve speech-to-text accuracy. Currently enhancing the project by incorporating face detection using OpenCV to enable visual recognition, and working on speech translation features leveraging the Google Translate API, allowing real-time language translation. This project demonstrates my ability to combine multiple technologies for developing intelligent, user-centric applications.

• Morse Code Detection

Developed a Morse Code detection system using Python, which converts audio inputs of Morse Code signals into readable text. This project involved signal processing and pattern recognition techniques, showcasing my ability to work with unique data formats and enhance real-time communication tools.