Vishnu Sharma

New Delhi

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CAREER OBJECTIVE

Driven CS student with hands-on experience in **Machine Learning, Data Analysis, and Systems Programming**, seeking to apply technical skills to solve real-world problems through **scalable, efficient, and intelligent data solutions**. Passionate about turning raw data into actionable strategies using Python-based tools and ML algorithms.

EDUCATION

Bachelor of Technology in Computer Science (Currently Pursuing)
Guru Gobind Singh Indraprastha University
(Delhi technical Campus , Greater Noida) 2022-26

Diploma in Electrical Engineering
(Prince Institute of Innovative Technology , Greater Noida) 2019-22

XII (CBSE) | Chandra Shekhar Azad Government Boys Senior Secondary School | Delhi 2019

X (CBSE) | Chandra Shekhar Azad Government Boys Senior Secondary School | Delhi *2017*

SKILLS AND EXPERTISE

• Professional: Microsoft Office, Creative Writing, English Proficiency (Spoken ,Written) , MS-Excel
• Languages: Proficient - C, Python | Familiar - Java
• Frameworks/Libraries: ReactJS, SQL
• Skills: Front End Development | Data Structures and Algorithms | Object Oriented Programming | Systems Programming | Computer Vision

INTERNSHIP

Intern | Institute of Sound and Vibration **Nov'23-April'24**

- Developed a Python script using loop constructs to automate vibration data collection every 5 minutes for passing metro trains.
- Implemented real-time signal processing techniques to capture tunnel vibrations and extract frequency-based patterns.
- Generated and visualized four distinct frequency-domain graphs per metro train to analyze vibration impact over time.
- Contributed to infrastructure monitoring by enabling systematic and automated data acquisition in a transportation tunnel environment.
- Enhanced data representation by creating interpretable visual plots to assist researchers in evaluating metro-induced vibrations.

PROJECTS

1. Real-Time Emotion Detection System

This project leverages a powerful combination of Python, OpenCV, and TensorFlow/Keras to detect facial expressions through a webcam. By utilizing Convolutional Neural Networks (CNNs), the system can classify emotions such as happiness, sadness, anger, and others in real time. The project is an excellent demonstration of how Computer Vision and Deep Learning can be applied together to analyze and interpret live data. It showcases the ability to train a model to identify subtle patterns in facial features and translate them into actionable insights, making it a valuable application in fields such as human-computer interaction, mental health, and security.

2. Library Management System (SQL, PHP, and Frontend)

Designed and developed a Hospital Management System using PHP for server-side scripting, SQL for database management, and frontend technologies for user interfaces. The system handles patient registration, appointment scheduling, doctor assignment, billing, and medical records management, ensuring smooth coordination between hospital staff and patients.

3. Resume Builder with PDF Export

This project utilizes React.js, Node.js, HTML2PDF, and Firebase to create a user-friendly resume builder. Users can input their personal and professional details, choose from various customized templates, and then download their resumes in PDF format. The application highlights strong UI design principles, providing a seamless user experience. It also demonstrates proficiency in DOM manipulation and dynamic file generation, making it a practical example of integrating front-end and back-end technologies.

CERTIFICATIONS

• Workshop on AI and Data Science | 2 Days March 2024
-Gained hands-on experience in Machine Learning model development and deployment.

• Web Development Bootcamp | Coding Ninjas | 3 Months July–September 2024
-Completed intensive training in HTML, CSS, JavaScript, and ReactJS.

• Data Analysis: | Coursera 2024
-Proficient in analysing large data sets using tools such as Excel, SQL, Python, and R to derive action able in sights and support data driven decision-making.

HOBBIES AND INTERESTS

 Chess and Strategy Games – Regularly play chess and other strategy games, which help enhance problem-solving and critical thinking skills.
 Fitness and Health – Committed to maintaining a healthy lifestyle through running, strength training, and mindfulness practices.
 Traveling and Exploring New Cultures – Interested in experiencing diverse cultures, which broadens my perspective and enhances adaptability.
 Music – Play a musical instrument or enjoy composing music, which fosters creativity and discipline.
 Coding and Programming – Passionate about solving algorithmic problems and contributing to open-source projects.