Surya Dev Singh
Associate Data Engineer

Contact

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Social

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Skills

Technical Skills

Python
Scala
MySQL
Spark
Excel
PHP
HTML/CSS
JavaScript
Airflow
Communication
Critical Thinking
Adaptability
Presentation
Problem-Solving

Languages
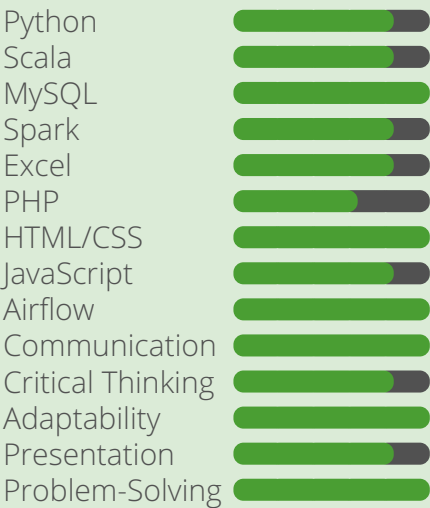
Nepali
English
Hindi

Education

Master of Computer Science
University of Memphis | Jan 2026 (Expected), Memphis

Bachelor of Computer Engineering
Nepal Engineering College | 2022, Nepal
CGPA:3.68

Project 1: Voice Controlled Home Automation System.
- Developed and deployed a Voice Controlled Home Automation System using Python, Arduino, and Google IFTTT, enabling users to control lights, thermostats, and appliances through natural language commands.

- Integrated speech-to-text and text-to-speech libraries (e.g., SpeechRecognition, gTTS) to facilitate seamless interaction between the user and the system, resulting in a 98% accuracy rate in voice recognition.

- Implemented end-to-end encryption protocols (e.g., SSL/TLS) to ensure secure communication between the system and connected smart devices, enhancing user privacy and security.

Project 2: AI integrated IoT based Precision AgroFarming.
- Led a cross-functional team in the development of an AI-integrated IoT Precision AgroFarming solution, utilizing Arduino-based sensors and a cloud-based AI model for data analysis.

- Employed machine learning algorithms (e.g., Random Forest, Neural Networks) to process real-time data from soil sensors and weather APIs, providing precise recommendations for irrigation, fertilization, and pest control.

- Conducted field trials over two growing seasons, resulting in a 30% increase in crop yield and a 20% reduction in water and fertilizer usage, demonstrating the system's significant positive impact on sustainable agriculture.

Experience

Associate Data Engineer
ExtensoData Pvt. Ltd. | Jun 2023 - Oct 2023

- Leveraged technologies such as Spark and Scala to proficiently handle large-scale data operations, enabling the efficient processing and analysis of substantial volumes of big data.

- Demonstrated proficiency in Python for in-depth data analysis, effectively deriving actionable insights from extensive datasets.

- Designed and implemented ETL workflows, ensuring a smooth and seamless flow of data along with necessary transformations to meet specific business requirements.

- Showcased adeptness in utilizing Apache Airflow, excelling in scheduling and managing jobs, as well as the creation and supervision of Directed Acyclic Graphs (DAGs) to establish a streamlined data workflow.

Data Analyst Trainee
Imperio Global Private Limited | 2020 - 2023

- Created various Excel documents to assist with pulling metrics data and presenting information to stakeholders for concise explanations of best placement for needed resources.
- Utilized data visualization tools to effectively communicate business insights.
- Used MySQL to manage and creating insights from server data.

Computer Teacher
Mahakavi Devkota Memorial Secondary School | 2017 - 2019

- Maintained an orderly classroom stocked with appropriate supplies.
- Used lectures, demonstrations and discussions to instruct students individually and in groups.
- Invigilated and graded projects, quizzes and examinations.
- Delivered engaging curriculum through diverse methods of classroom instruction, computer lab activities and online learning systems.