Shekhar Lamichhane Magar

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Objective

Motivated and enthusiastic data science student eager to apply my knowledge in data engineering through practical experience. Passionate about building scalable data systems, optimizing pipelines, and presenting actionable insights using Python, SQL, and modern technologies.

Education

BSc (Hons) in Computer and Data Science   Jan 2023 – Present
Sunway College Kathmandu (Affiliated with Birmingham City University, UK)
- Relevant Coursework: Data Structures, Databases, Python Programming, Web Development
- Successfully completed the second year of studies with strong academic performance.
- PTE Score: 61 (Academic English Proficiency).

Projects

Python Hotel Management System
- Developed a Python-based system to manage hotel operations, optimizing database interactions for performance.
- Focused on UI logic and backend database integration.
- GitHub: Hotel Management System

Data Analysis Assessment
- Performed data cleaning, visualization, and statistical analysis using Python and Jupyter Notebook.
- Created Report using LaTeX.
- Generated actionable insights by exploring patterns and trends in datasets.
- GitHub: Data Analysis Assignment

Data Cleaning and Visualization (Python, R)
- Processed raw datasets to identify and fix inconsistencies, ensuring high-quality data for analysis.
- Built interactive dashboards using Plotly and Shiny to present insights effectively.

Data Analysis with R
- Conducted data analysis using R, focusing on data manipulation and exploratory data visualization.
- Created professional-quality plots and summaries using ggplot2 and R Markdown.
- GitHub: Data Analysis with R

Data Visualization with R
- Designed dynamic and interactive visualizations using ggplot2, Plotly, and Shiny in R.
- Emphasized data storytelling with visually compelling dashboards and reports.
- GitHub: Data Visualization with R

Flight Management System - JAVA (OOP)
- Designed and implemented a Java-based flight management system using Object-Oriented Programming principles.
- Developed features for booking, flight scheduling, and user account management.
- Focused on scalability and clean architecture.
- GitHub: Flight Management System

E-commerce React Demo
- Built a React-based e-commerce website demonstrating dynamic product rendering and responsive design.
- Leveraged JavaScript and React components for seamless user experience.
- GitHub: E-commerce React Demo

React Project
- Built a responsive React application, incorporating dynamic components with HTML, CSS, and

JavaScript.
- Enhanced understanding of state management and rendering logic.
- GitHub: React Project

IoT Smart Greenhouse (Research Paper)
- Explored IoT applications in agriculture, focusing on automated greenhouse systems.
- Provided a comprehensive literature review and practical implementation insights.
- GitHub: IoT Smart Greenhouse

Certifications

Introduction to Python – SoloLearn (2023)
Digital Marketing Fundamentals Masterclass – IIDE (2023)
Introduction to Machine Learning – Kaggle
Intermediate to Machine Learning – Kaggle

Skills

- **Programming Languages:** Python, R, Java, SQL, HTML, CSS, JavaScript

- **Tools:** React, ggplot2, Shiny, Plotly, Git, Jupyter Notebook, Power BI, Microsoft Application Tools

- **Soft Skills:** Problem-solving, Critical Thinking, Team Collaboration, Time Management, Good Conversation Skills

- **Languages:** English, Nepali

Experience

Virtual Intern – IIDE (Digital Marketing) 2023
- Collaborated with international peers in a month-long virtual internship.
- Learned structured approaches to digital marketing through hands-on sessions.

Trainee – Voyager Company (Microsoft Application Tools) 2023
- Developed practical skills in software development using Microsoft tools.

Additional Learning

Linear Algebra (Ongoing)
- Currently exploring topics such as matrix operations, vector spaces, and eigenvalues to strengthen mathematical foundations for data engineering.
Probability Training Course (2023)
- Completed a non-credit course focusing on probability theory, distributions, and real-world applications.

References

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