LISHA MAHARJAN | Email: lishamaharjan358@gmail.com | LinkedIn: linkedin.com/in/lishamaharjan

EDUCATION

Miami University   Oxford, Ohio | Aug 2023-May 2025
Master of Science in Computer Science

Kathmandu Engineering College   Kathmandu, Nepal | Nov 2017-Apr 2022
Bachelor of Engineering in Computer Engineering   **[3.73/4.00]**

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant, Miami University   Oxford, Ohio | Aug 2023-Current
- Guided students on the foundational concepts of Object Oriented programming, and Data Abstraction and Structures by assisting students in computer lab sessions.
- Guided students on coding process and best practices by mentoring students on style standards, test cases and program execution.

Associate Software Engineer, LIS Nepal   Lalitpur, Nepal | Apr 2022-Jul 2023
- Accelerated order fulfillment process by developing a decision engine API to select the best store using linear programming optimization approach and deploying it using Docker which reduced order delivery time by 5%.
- Improved monitoring and root cause analysis of system errors by implementing Elastic, Logstash, and Kibana (ELK) architecture to perform log parsing and analytics.
- Created an anomaly detection model for log analysis using Machine Learning (ML) techniques like Principal Component Analysis (PCA) and K-Means Clustering.
- Improved data quality issues by creating an outlier detection model for company sales using Kolmogorov-Smirnov's statistical test.
- Boosted efficiency of image data scraping script in Python by implementing multiprocessing, resulting in 33% reduction in processing time.
- Enhanced data pipeline efficiency for a clothing brand by refining and troubleshooting Python scripts, leading to seamless automation processes.
- Categorized clothing images through logo detection by implementing transfer learning techniques.
- Labeled logos in clothing images based on Pascal Visual Object Classes (VOC) format using LabelImg tool.

Software Engineer Intern, LIS Nepal   Lalitpur, Nepal | Nov 2021-Feb 2022
- Designed Python scripts for Extraction, Transformation, and Loading (ETL) processes, facilitating the seamless transfer of data from source tables to Snowflake's target tables.
- Built data model explaining the relationship between various dimensions and facts relating to retail sales.
- Developed and executed a data ingestion pipeline in Snowflake using Snowflake stages, file formats, stored procedures, streams, and tasks.

PROJECTS

Flower Recognition App
- Created an Android mobile application to identify flower images from 15 categories by using transfer learning technique based on Convolutional Neural Network (CNN) and achieved an accuracy of 89.02%.

Rental Marketplace
- Developed web application using MEAN (MongoDB, Express, Angular, and Node) stack that allowed users to easily search for property rentals using filters or post rental ads.

SKILLS/ CERTIFICATIONS

- **Languages:** Python, SQL, JavaScript, NodeJS, Java, C++, C, HTML
- **Tools and applications:** Snowflake, SQL Server, MySQL, MongoDB, Git, Shell Scripting, Docker, Tableau, Power BI, Microsoft Office (Word, Excel, Powerpoint), Dataiku DSS
- **Certificates:** Intermediate SQL (Datacamp), Intermediate Machine Learning (Kaggle), Microsoft Certified Azure Fundamentals (Microsoft)