

LAL BAHADUR RESHMI THAPA

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PROFESSIONAL SUMMARY

A results-driven and highly skilled AI Developer and Software Developer with 7+ years of experience leading software development projects and delivering innovative solutions. Expertise in Python, and related technologies, with a strong background in machine learning and deep learning, natural language processing. Proven track record in optimizing systems, improving performance, and driving project success. Extensive experience in cloud services, particularly AWS. Excellent leadership, problem-solving, and communication skills. Committed to continuous learning and staying up-to-date with the latest industry trends

CORE COMPETENCIES:

Data Science & Machine Learning: ■ Scikit-learn ■ Natural Language Processing ■ Sentiment Analysis
Programming & Tools: ■ Python ■ PHP ■ MySQL ■ MongoDB ■ PostGres
Research & Analysis: ■ Machine Learning Pipelines ■ Research Collaboration ■ Research Publication Contribution

EDUCATION

Tagliatela College of Engineering, University of New Haven ■ West Haven, CT August 2024 (expected 2026)
Master of Science in Data Science

- **Coursework:**
 - Data Engineering ■ Machine Learning ■ Big Data ■ Data Visualization ■ Deep Learning ■ Natural Language Processing (NLP) ■ Leadership in Data & AI Products ■ Data Ethics ■ etc..
- **Tools:**
 - Python ■ SQL ■ PostGres ■ MySQL ■ MongoDB ■ Flask ■ Pyspark ■ Hadoop
- **Achievements:**
 - 20% Dean's Scholarship

School of Engineering], Kathmandu University ■ Dhulikhel, Nepal
Master of Technology (Information Technology) ■ Information and Language Processing Lab Research Assistant/ Software Developer

Crimson College of Technology, Pokhara University ■ Butwal, Nepal
Bachelor of Computer Applications

PROFESSIONAL EXPERIENCE

[Darshan Infosys Pvt. Ltd] ■ Kathmandu, Bagmati November 2022–June 2024
Machine Learning/ NLP Engineer/ AI Developer

- Develop and curate datasets, labeling news articles as positive, negative, or neutral for machine learning training.
- Build and optimize machine learning models to classify news sentiments as positive, negative, or neutral, and analyze key statistics like coverage and sentiment distribution across media outlets.
- Continuously update and refine models based on new data while monitoring and evaluating performance to ensure accurate sentiment classification and reliable analysis of news trends.

Keiv Technologies Pvt. Ltd. ■ Banepa, Bagmati January 2017–October 2022
Software Developer

- Led the migration of data management systems from Excel to a web-based solution, improving efficiency and reducing errors. Implemented user-centric features, enhancing data accessibility.
- Focused on Natural Language Processing (NLP) research, developing prototypes for text classification and sentiment analysis. Collaborated on research publications, contributing to advancements in the lab's NLP capabilities.

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DATA & AI PROJECTS AND PORTFOLIO

University of New Haven ▪ West Haven, CT

August 2024–Present

Master of Science in Data Science/Tagliatela College of Engineering

- In this project, we build a scalable data system that centralizes fragmented retail data, automates pipelines, and enables real-time analytics. This enhances inventory management, demand forecasting, and dynamic pricing, helping supermarket chains reduce waste, optimize supply chains, and drive data-driven growth.
- **Project Title – Demand Forecasting for Efficient Shipping and Distribution Management**
- **Design and Implement a Data Engineering Pipeline** – Developed and deployed a scalable data pipeline on Amazon Aws. Utilized tools such as Python, SQL, and Cloud Services, e.g., AWS Kinesis, AWS Glue, S3, etc..

Kathmandu University ▪ Dhulikhel, Nepal

February 2014–November 2015

Master of Technology in Information Technology - Research Assistant/Software Developer

- Research-driven development: Conducted in-depth research in Natural Language Processing (NLP) and developed prototypes addressing key challenges like text classification, sentiment analysis, and named entity recognition.
- Collaborative innovation: Designed and implemented algorithms and models, contributing to research publications in collaboration with fellow researchers and professors.
- Technical proficiency: Leveraged NLP-specific tools and programming languages to implement efficient solutions, driving advancements in the lab's research capabilities.

News Trend ▪ Kathmandu, Nepal

October 2023– June 2024

AI/Machine Learning Developer, Darshan Infosys Pvt. Ltd.

- Developed a robust machine learning classification model that accurately categorizes news articles into positive, negative, and neutral sentiments, providing insightful analysis of media coverage and trends.

News Search ▪ Kathmandu, Nepal

June 2023– March 2024

AI/Machine Learning Developer, Darshan Infosys Pvt. Ltd.

- The News Search project resulted in increased user engagement and satisfaction through improved information retrieval, valuable data-driven insights, and enhanced performance, making it a reliable tool for tracking relevant news

Website Link: <https://lalreshmithapa.github.io/portfolio>

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PUBLICATIONS

- Instrumentation for Cooking Pattern Analysis in Peri-Urban Nepal. Amod Pokhrel, Yin, Shengrong and Pokhrel, Amod Kumar and Heydariaan, Milad and Gnawali, Omprakash and Reshmi Thapa, Lal Bdr and Regmi, Santosh and Pokhrel, Dhiraj. 2020 16th International Conference on Distributed Computing in Sensor Systems (DCOSS)

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- Distributed Multimedia System for Distance Education. Gajendra Sharma, Subarna Shakya and Lal B.R. Thapa (2019)Journal of the Institute of Engineering
- Classifying Sentiments in Nepali Subjective Texts.Lal Bahadur Reshmi Thapa and Bal Krishna Bal. IISA 2016, The 7th International Conference on Information, Intelligence, Systems and Applications, 13-15 July, 2016, Porto Carras Grand Resort, Chalkidiki, Greece.

PROFESSIONAL CERTIFICATIONS & MEMBERSHIPS

Data Engineering Foundations	LINKEDIN LEARNING	Jan 2025
Data Science Foundations: Data Engineering	LINKEDIN LEARNING	Jan 2025
Python: Working with REST and Web Data	LINKEDIN LEARNING	Feb 2025
Python for Data Science Tips, Tricks, & Technique	LINKEDIN LEARNING	Feb 2025
Cloud NoSQL for SQL Professionals	LINKEDIN LEARNING	Feb 2025
Apache Spark Essential Training: Big Data Engineering	LINKEDIN LEARNING	March 2025
MLOps Essentials: Model Deployment and Monitoring	LINKEDIN LEARNING	March 2025
Data Science Methodologies: Making Business Sense	LINKEDIN LEARNING	March 2025
Azure Spark Databricks Essential Training	LINKEDIN LEARNING	April 2025
Apache Kafka Essential Training: Getting Started	LINKEDIN LEARNING	April 2025
MLOps Essentials: Model Development and Integration	LINKEDIN LEARNING	May 2025

LANGUAGES

ENGLISH	IELTS	February 2023
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