

LAL BAHADUR RESHMI THAPA

(203) 507-1600 | lalreshmithapa@gmail.com | LinkedIn: <https://www.linkedin.com/in/lal-28474a93/>

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:**
 - 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
- **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.

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- 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.

DATA & AI PROJECTS AND PORTFOLIO

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)
- Distributed Multimedia System for Distance Education. Gajendra Sharma, Subarna Shakyaaand 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.

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LANGUAGES

ENGLISH

IELTS

February 2023