Prabin Bhandari

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RESEARCH INTERESTS	Large Language Models, Natural Language Generation, Low-resource languages, Spatial Data, NLP and Machine Learning

EDUCATION

George Mason University Fairfax, Virginia, USA

Ph.D. in Computer Science **August, 2021 - present (Expected: May 2026)**

Pulchowk Campus, Tribhuvan University Pulchowk, Lalitpur, Nepal

Bachelors in Computer Engineering **2013 - 2017**

RESEARCH AND PROFESSIONAL EXPERIENCE

Research Assistant **2023 - Present**
George Mason University Fairfax, Virginia, USA

Engaged in the George Mason NLP group, my responsibilities involve utilizing NLP techniques for spatial data, with a current focus on harnessing Large Language Models (LLMs) for diverse geospatial downstream tasks.

Teaching Assistant **2021 - 2023**
George Mason University Fairfax, Virginia, USA

Duties included office hours, grading, and leading weekly lab sessions.
- CS678: Advanced Natural Language Processing
- CS499: Natural Language Processing (NLP)
- CS450: Database Concepts
- CS112: Introduction to Computer Programming
- CS110: Essentials of Computer Science

Senior Software Engineer **2020 - 2021**
Assurance IQ, LLC Remote

Tasked with managing the backend system for the sale of life insurance policies.

Course Instructor **2018 - 2021**
Swastik College Madhyapur Thimi, Nepal

Delivered lectures and advised students for their undergraduate thesis.
- CSC410: Data Warehousing and Data Mining
- CSC370: E-Commerce
- CSC321: Image Processing
- CSC261: Artificial Intelligence
- CSC209: Computer Graphics

Co-founder and Python Instructor **2018 - 2020**
Line Academy Pulchowk, Nepal

Taught courses related to Python.

Co-founder and Software Engineer **2015 - 2020**
TechKunja Pvt. Ltd. Pulchowk, Nepal

Successfully managed company inception, strategically and innovatively drove business growth, served as Project Manager for in-house and client projects, and worked as a backend developer on various projects.

PEER-REVIEWED PUBLICATIONS	**Bhandari, P.**, Anastasopoulos, A., & Pfoser, D. (2023, November). Are Large Language Models Geospatially Knowledgeable?. In Proceedings of the 31st International Conference on Advances in Geographic Information Systems. (In Press)
	Bhandari, P., & Brennan, H. (2023, September). Trustworthiness of Children Stories Generated by Large Language Models. In Proceedings of the 16th International Natural Language Generation Conference (pp. 352-361). URL `https://aclanthology.org/2023.inlg-main.24`.
OTHER PUBLICATIONS	**Bhandari, P**. (2023). Prompting in Autoregressive Large Language Models. URL `https://arxiv.org/abs/2312.03740`.
	Adhikari, B., & **Bhandari, P**. (2023). Estimation of Vehicular Velocity based on Non-Intrusive stereo camera. URL `https://arxiv.org/abs/2304.05298`.

SKILLS	• Programming Languages: Python, C/C++, Ruby, JAVA, JavaScript, MATLAB. • Libraries and Framework: PyTorch, Tensorflow, Numpy, Pandas, matplotlib, Elastic Search. • Databases: MySql, PostgreSQL, MongoDB, Neo4j. • Web Development: HTML, CSS, Django, Ruby on Rails, React. • Tools: Git, Latex, Transformers, Stanza, Docker, Kubernetes, HPCE. • Languages: Nepali, English, Hindi.

AWARDS, ACHIEVEMENTS, AND PROFESSIONAL AFFILIATIONS	Reviewer, ACL Rolling Review (ARR)	2023
	Marketing Manager, LOCUS	2017
	Board Member, Sano Sansar Initiative	2015-2017
	Recipient of Civil Employee Children's scholarship for undergraduate education	2014
	Volunteer, National Population Census 2011, Government of Nepal	2011

REFRENCES	**Dr. Antonios Anastasopoulos** Assistant Professor Department of Computer Science (CS) George Mason University 4400 University Dr, Fairfax, VA 22030	antonis@gmu.edu
	Dr. Dieter Pfoser Professor Geography & Geoinformation Science Department George Mason University 4400 University Dr, Fairfax, VA 22030	dpfoser@gmu.edu