

Shuvam Shiwakoti



EDUCATION

- **Delhi Technological University** New Delhi, India
 - *Bachelor of Technology* 2019 - 2023
 - Major: Software Engineering
 - CGPA: 8.56/10

PUBLICATIONS

- Analyzing the Dynamics of Climate Change Discourse on Twitter: A New Annotated Corpus and Multi-Aspect Classification
SHIWAKOTI S., THAPA S., RAUNIYAR K., SHAH A., BHANDARI A., NASEEM U.
Accepted at the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING).
- [NEHATE: Large-Scale Annotated Data Shedding Light on Hate Speech in Nepali Local Election Discourse](#)
THAPA S.*, RAUNIYAR K.*, **SHIWAKOTI S.**, POUDEL S., NASEEM U., NASIM M.
In 2023 26th European Conference on Artificial Intelligence(ECAI) (pp. 2346-2353).
- [Breaking Barriers: Exploring the Diagnostic Potential of Speech Narratives in Hindi for Alzheimer's Disease](#)
RAUNIYAR K., **SHIWAKOTI S.**, POUDEL S., THAPA S., NASEEM U., NASIM M.
In Proceedings of the 2023 ACL 5th Clinical Natural Language Processing Workshop. (pp. 24-30).
- [Multi-Aspect Annotation and Analysis of Nepali Tweets on Anti-Establishment Election Discourse](#)
RAUNIYAR K., POUDEL S., **SHIWAKOTI S.**, THAPA S., RASHID J., KIM J., IMRAN M., NASEEM U.
In IEEE Access Journal.
- Deep-Learning Methods for Vehicle Trajectory Prediction: A Survey
SHIWAKOTI S., SHAHI S.B., SINGH P.
In 2023 International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS)

* denotes equal contribution.

EXPERIENCE

- **Research Intern** Remote
 - *Manchester Metropolitan University; Advisor: Dr. Akshi Kumar* Jul'22 - Nov'22
 - Implementing and exploring various image classification techniques for the classification of different types of diabetic foot ulcers(DFUs)
 - Creating an ensemble approach for DFU classification that leveraged multiple powerful image classification models for effective and reliable classification.
- **Undergraduate Researcher** Delhi, India
 - *Delhi Technological University; Advisor: Priya Singh* Sep'22 - May'23
 - Investigated and analyzed various methods for vehicle trajectory predictions(VTP) for a through survey of the field.
 - Surveyed a total of 43 research articles related to VTP and published the results at a conference.

- **Application Development Intern** Remote
Global Governance Initiative *Aug'21 - March'22*
 - Worked as a full stack developer to solve business problems end-to-end through tech.
 - Designed and developed a video streaming platform(The Trinity) and a Learning Management System(GGI-LMS) for the organization.

PROJECTS

- **NEHate: Hate detection for low resource language**
 - Released a comprehensively annotated dataset for hate detection including multiple target identification for a low resource language(Nepali)
 - Conducted analysis of the tweets and experiments with various architectures to measure baseline results.
- **ClimaConvo: Climate change twitter data analysis**
 - Created a comprehensively annotated multi-aspect dataset pertaining climate change discourse in twitter.
 - Conducted through analysis of the tweets through advance topic modeling and sentimental analysis techniques.
 - Conducted experiments with various architecture and established baselines for 6 tasks.
- **Neural Style Transfer through Deep Learning**
 - A deep learning project that transfers the styles of one image to another.
 - Build using the PyTorch library and the VGG19 model.
- **FAQ Chatbot**
 - A deployable chatbot application made with the TensorFlow library.
 - Model deployment with flask, frontend managed with React.

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, C
- **Frameworks:** Pytorch, Numpy, Tensorflow, Flask
- **Other Tools and Technologies:** AWS, MongoDB, Javascript, React, React Native, NodeJS