

Utsav Das

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Education

University of Waterloo	2019 - 2021
Master of Mathematics - MMath, Computer Science	GPA: 87/100 (3.93/4)
Supervisor: Dr. Olga Vechtomova, Natural Language Processing Research Lab	
University of Mumbai	2015 - 2019
Bachelor of Engineering - BE, Information Technology	GPA: 8.72/10

Skills

Python, PyTorch, NLTK, Spacy, Gensim, Numpy, Pandas, Scikit-learn, C/C++

Experience

Syntax-aware Sentence Generation (Ongoing) Master's Thesis

- Implemented graph convolutional networks with a Seq2Seq model on the SNLI dataset to incorporate syntactical information into sentence generation.
- Evaluated sentence reconstruction performance with partial syntactic information from multiple sentences.

Aspect-based Sentiment Analysis Manulife Financial Corporation

- Implemented BERT-based methods and graph convolutional networks to perform aspect-based sentiment analysis.
- Evaluated the methods on the Laptop and Restaurant Reviews datasets and the US Financial News Articles dataset.

Topic Modelling for Short Text Manulife Financial Corporation

- Evaluated different topic modeling methods for short text on the StackOverflow and Switchboard datasets.
- Delivered a modularized implementation of the methods to Manulife for use on their proprietary data.

Measuring and Mitigating Unintended Bias in Text Classification

- Measured bias in hate speech detection models as a result of certain identity terms present in text.
- Implemented bias mitigation strategies such as identity term removal and data augmentation to reduce false negatives.

Graduate Teaching Assistant

- Functional Programming (CS 135, Fall 2019), Elementary Algorithm Design and Data Abstraction (CS 136, Winter 2020), Algorithms (CS 341, Spring 2020, Fall 2020, Winter 2021), Introduction to Computer Science 2 (CS 116, Spring 2021)