

Utsav Das

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EDUCATION

University of Waterloo, Canada

Master of Mathematics - MMath,
Computer Science
Sept 2019 - Dec 2021
GPA: 87/100 (3.93/4)

University of Mumbai, India

Bachelor of Engineering - BE,
Information Technology
Jul 2015 - Jul 2019
GPA: 8.72/10

SKILLS

Languages:

Python, C/C++, Bash

Tools and Frameworks:

PyTorch, Keras/Tensorflow,
Git, NLTK, spaCy, Gensim,
NumPy, Pandas, Scikit-learn,
LaTeX

Databases:

MongoDB, SQL

AWARDS/ACTIVITIES

International Master's Award for Excellence

Awarded for demonstrated academic excellence.

Graduate Research Studentship

Award granted for performing research at the NLP lab.

NLP Reading Club

Discussed papers with students on current NLP topics like Style Transfer and Transformer-based architectures.

12.09.2021

EXPERIENCE

Natural Language Processing (NLP) Research Lab

Master's Thesis

April 2021 – Dec 2021

University of Waterloo

- Developed graph convolutional neural networks with a Seq2Seq model on the SNLI dataset to incorporate syntactic information into sentence generation.
- Evaluated sentence construction performance while controlling for syntactic components from multiple sentences.

NLP Research Lab/Manulife

Graduate Researcher

Feb 2021 – April 2021

Waterloo

- 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.

NLP Research Lab/Manulife

Graduate Researcher

Jan 2020 - June 2020

Waterloo

- Evaluated different topic modelling 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

Course Project

Oct 2019 - Dec 2019

- 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.

University of Waterloo

Graduate Teaching Assistant

Sept 2019 - August 2021

University of Waterloo

- Graded students' assignments for undergraduate computer science courses.
- Assisted with conducting midterm and final exams and general course management.

Mastek

Student Intern

June 2018 - July 2018

Mumbai

- Developed an information bot with Node.js, MongoDB and, Microsoft Azure's Cognitive Services to answer questions about the company's HR policies.