Utsav Das

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EDUCATION

University of Waterloo, Canada
Master of Mathematics - MMath,
Computer Science
Sept 2019 - Feb 2022
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.

02.24.2022

EXPERIENCE

**Natural Language Processing (NLP)
Research Lab**   April 2021 – Dec 2021
Master's Thesis   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 syntactic components from multiple sentences.

NLP Research Lab/Manulife   Feb 2021 – April 2021
Graduate Researcher   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   Jan 2020 - June 2020
Graduate Researcher   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   Oct 2019 - Dec 2019
Course Project
- Measured impact of identity terms in text on bias in hate speech detection models.
- Implemented bias mitigation strategies such as identity term removal and data augmentation to reduce false negatives.

University of Waterloo   Sept 2019 - August 2021
Graduate Teaching Assistant   University of Waterloo
- Graded students' assignments for undergraduate computer science courses.
- Assisted with conducting midterm and final exams and general course management.

Mastek   June 2018 - July 2018
Student Intern   Mumbai
- Developed an information bot with Node.js, MongoDB and, Microsoft Azure's Cognitive Services to answer questions about the company's HR policies.