

ANDREI STOICA

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WORK EXPERIENCE

Teaching Assistant

Ontario Tech University

September 2017 - Present Oshawa, ON

- Lead classes of 20-25, junior and senior level undergraduate students through lab activities
- Corrected student work and provided one-on-one feedback for improvement
- Courses: Machine Learning, Mobile Devices(Android), Programming Workshop, System Development and Integration, Web Development, Interactive Media, Compilers

Graduate Research Assistant

Ontario Tech University

May 2018 - August 2020 Oshawa, ON

- Lead the research on text mining and natural language processing queries in relational databases
- Topics and Technologies used: PostgreSQL, topic modelling, NLP, Python, web services

PROJECT EXPERIENCE

NLP Relational Queries And Its Applications - Thesis Project

- Developed LDA extension to PostgreSQL to allow Topic Modelling of text columns inside of SQL
- Created a web front end to visualize the change in topics over time for academic authors and venues
- Published 2020 IEEE International Conference on Information Reuse and Integration for Data Science

Technologies: Python SQL/PostgreSQL Flask HTML CSS D3.js

Scalable Analysis of Open Data Graphs

- Performed analysis of similarities between documents through Canada's Open Data portal
- Provided insight into organization and connectedness of Canada's Open Data
- Scalable and Distributed code base to allow for large dataset and scaling with time
- Published and Presented at 2019 IEEE International Conference on Information Reuse and Integration for Data Science

Technologies: Python SQL/PostgreSQL Apache Spark/PySpark Matplotlib GCP Storage GCP Dataproc

Canadian Political Twitter Analysis

- Built tools to track and analyse the conversation surrounding Canadian politics on Twitter
- Tracked key figures and CDNPoli hashtag and predicted standings in 2019 election

Technologies: Python Tensorflow SQL/PostgreSQL Matplotlib

EDUCATION

BSc (Hons.) - Computer Science

Ontario Tech University

2018 Oshawa, ON

MSc - Computer Science

Ontario Tech University

Graduating 2022 Oshawa, ON

SKILLS

Programming

Python Java Clojure C/C++ Kotlin Scala Dart Flutter

Data Science:

Numpy Scipy NLTK Gensim Pandas IPython Notebooks

Database:

PostgreSQL MongoDB

Web Services:

Flask NodeJS

Web Frontend:

HTML CSS ClojureScript JavaScript Reagent React JQuery

AI/ML:

Tensorflow scikit-learn word2vec fasttext

PUBLICATIONS

Conference Proceedings

- Stoica, A., K. Pu, and H. Davoudi (2020). "NLP Relational Queries and Its Application". In: *2020 IEEE 21st International Conference on Information Reuse and Integration for Data Science (IRI)*, pp. 395–398. DOI: 10.1109/IRI49571.2020.00064.
- Stoica, A., M. Valdron, and K. Pu (2019). "Scalable Analysis of Open Data Graphs". In: *2019 IEEE 20th International Conference on Information Reuse and Integration for Data Science (IRI)*, pp. 334–341. DOI: 10.1109/IRI.2019.00059.

HOBBIES

- Free and open source software enthusiast
- Maintain a home media and storage server for family running the latest Ubuntu LTS
- Build computers for others, source and consult on components required, install and teach them to install themselves