Tomas Goldsack

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Personal Summary

I am a self-motivated, independent and enthusiastic student, enrolled in a CDT PhD programme at the University of Sheffield. Currently in the second year of my PhD project, my research interests surround controllable Natural Language Generation, Text Summarisation, and Text Simplification.

Education

PhD, Speech and Language Technologies   2020 – Present
Project Title: "Adaptive Natural Language Generation for Technical Documents"   *University of Sheffield*

- A member of the second cohort of the Centre for Doctoral Training in Speech and Language Technologies and their Applications.
- Supervised by Dr. Chenghua Lin and Dr. Carolina Scarton, my project primarily surrounds the summarisation of technical or scientific documents, with an emphasis on broadening access to non-expert audiences.

BSc, AI and Computer Science   2016 – 2020
*Degree Classification: **1st Class Honours***   *University of Sheffield*

- Awarded **Undergraduate Academic Achievement scholarship** for two consecutive years - 2016 & 2017.
- A member of Sheffield AI Society (SAIS).

Publications

T. Goldsack, Z. Zhang, C. Lin, C. Scarton, "Making Science Simple: Corpora for the Lay Summarisation of Scientific Literature", in *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing*

T. Goldsack, Z. Zhang, C. Lin, C. Scarton, "Domain-driven and Discourse-guided Scientific Summarisation", in *Proceedings of the 2023 European Conference on Information Retrieval (ECIR)*

T. Goldsack, Z. Lou, Q. Xie, C. Scarton, S. Ananiadou, C. Lin "Overview of the BioLaySumm 2023 Shared Task on Lay Summarization of Biomedical Research Articles", in *Proceedings of the 22nd Workshop on Biomedical Language Processing @ ACL 2023*

Other Research Experience

BioLaySumm Shared Task   2023
Shared Task on the Lay Summarisation of Biomedical Research Articles   *BioNLP, ACL 2023*

- Organised a public shared task on the generation of lay summaries for biomedical research articles. The task was very successful overall, attracting a total of 20 participating teams who adopted a wide range of approaches.
- This was one of the shared tasks being run by the BioNLP workshop, to be hosted at ACL 2023, Toronto.

Data-Centric AI Competition   2021
Machine Learning Competition   *DeepLearning.AI / Landing AI*

- Engaged in a public competition whereby teams must improve or augment a provided image-based dataset so as to increase performance on a fixed ML classification model.
- Competing as part of a team of PhD students, our best submission focused on confidence-based data sampling and augmentation and placed the top quarter of submissions.

Irony Detection in English Tweets   2019 – 2020
Undergraduate Dissertation Project   *University of Sheffield*
- A year-long project, involving a comparison of several manually-implemented supervised ML algorithms for the task of irony detection (classification).
- Made use twitter-based data from a SemEval2018 task.

Work Experience

Graduate Teaching Assistant   2020 – Present
                                                            University of Sheffield
- Worked as a graduate teaching assistant for the multiple undergraduate (UG) and postgraduate (PG) academic modules.
- Modules include: COM1003 Java Programming (UG), COM3110 Text Processing (UG), COM6513 Natural Language Processing (PG).

Lab Monitor   2022
                                              Lisbon School of Machine Learning
- Worked as a lab monitor at Lisbon Summer School of Machine Learning (LxMLS) 2022.
- Responsibilities include providing direct assistance to students working through machine learning exercises, in addition to assisting with the organisation and running of the school.

Software Engineer   2018 – 2020
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- Worked as part of an agile software development team, contributing to the full-stack development of responsive web applications and hybrid mobile applications.
- Made use of the following technologies/frameworks: Agile, Scrum, CI, ReactJs, Redux, React Native, ES6, NodeJS, MySQL, MongoDB, C# .NET, AWS, CSS, SCSS, Cypress, Jest.

Programming

Languages: Python, Java, JavaScript
Libraries/tools: Git, Bash, Pytorch, Tensorflow, SQL, NoSQL