Timon Gurcke

Curriculum Vitæ

Address	—
Phone	—
Email	—
Country of Citizenship	Germany
Date of Birth	20.05.1995
Portfolio	Kaggle, GitHub

Education

Apr 2018 – Jan 2021 Business Information Systems (M.Sc.)
Paderborn University
Master's Thesis: **Assessing the Argument Quality of Persuasive Essays using Neural Text Generation (*Grade: 1.0*)**
GPA: 1.2 (Best graduate award)

Oct 2014 - Mar 2018 Business Information Systems (B.Sc.)
Paderborn University

Oct 2016 - Dec 2016 Computer Science (B.Sc.)
University of Helsinki

Sep 2009 - Feb 2012 Bilingual Administrative Assistant (English)
IHK Dortmund

Work Experience

Mar 2021 - Present Research Assistant (Ph.D.)
Paderborn University, Computational Social Science
Argument Summarization and **Argument Objectification**

Sep 2019 - Mar 2021 Academic graduate assistant
Paderborn University, Computational Social Science
Assisting researchers in the field of Computational Argumentation

Jan 2019 - Aug 2019 Academic graduate assistant
Paderborn University, Data Analytics Group
Research tooling and deployment/administration of machine learning infrastructure (e.g., JupyterHub and RStudio on AWS)

Oct 2018 - Dec 2018 Intern in text analytics
Blue Reply GmbH
Creating a prototype application based on SAP HANA: document upload, text extraction, search, preprocessing, clustering and classification of documents

May 2017 - Sep 2018 Working student in business intelligence
Spier GmbH & Co. Fahrzeugwerk KG
Development and implementation of BI concepts including requirement acquisition and validation of data in cooperation with responsible departments and an external consultancy agency

Nov 2015 - Mar 2016 Intern in cash register software
Phoenix Contact GmbH & Co. KG
Creation of a cross-location system description of the cash register software and development of solutions for cost center allocations

Competences & Personal Skills

Machine Learning	Employment of several core machine learning algorithms using popular frameworks (e.g. **Pytorch**, Tensorflow, Pytorch Lightning, Sklearn, Pandas)
Natural Language Processing	**Text Mining** (extraction, classification, relation modeling), **Classification**, **Language Modeling** and **Text Generation**, as well as extensive experience using state-of-the-art frameworks (e.g. Huggingface Transformers)
Business Intelligence	Experience in creating ETL jobs using SQL and T-SQL, as well as knowledge of reporting with Microsoft SSRS and SSAS
Operating systems	Windows, Linux
Programming languages	**Python**; further knowledge in R, Java, VBA, SQL, HTML5, CSS3, LaTeX etc.
Languages	German (native speaker) English (excellent command)

Projects

Machine Learning	1st IBM: Quantitative Summarization – Key Point Analysis Shared Task Top 5% Severstal: Steel Defect Detection (2431 teams) Top 6% ASHRAE - Great Energy Predictor III (3614 teams) Top 7% Mechanisms of Action (MoA) Prediction (4373 teams)
Natural Language Processing	Aspect-based product sentiment analysis app: automated crawling, topic modeling, and sentiment analysis of product reviews News media intelligence app: automated crawling, timeline clustering, sentiment analysis and summarization of newspaper articles

Publications

2021 **Timon Gurcke**, Milad Alshomary and Henning Wachsmuth **Assessing the Sufficiency of Arguments through Conclusion Generation** Proceedings of the 8th Workshop on Argument Mining. 2021 (link)

2021 Milad Alshomary, **Timon Gurcke**, Shahbaz Syed, Philipp Heinrich, Maximilian Spliethöver, Philipp Cimiano, Martin Potthast and Henning Wachsmuth **Key Point Analysis via Contrastive Learning and Extractive Argument Summarization** Assessing the Sufficiency of Arguments through Conclusion Generation (link)

2021 Milad Alshomary, Wei-Fan Chen, **Timon Gurcke** and Henning Wachsmuth **Belief-based Generation of Argumentative Claims** Proceedings of the 16th Conference of the European Chapter of the Association for Computational Linguistics 2021 (link)