



Siddharth Bhargava

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<https://github.com/The-obsrv> |

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About me:

A coder-cum-researcher, I look forward to tackling the next data challenge and updating to a better version (of myself).

● WORK EXPERIENCE

01/09/2020 – 01/10/2021 Munich, Germany

UNIVERSITY RESEARCH ASSISTANT DATABASE SYSTEMS LAB, LMU MUNICH

1. Focused on studying argument strength models and their ability to generalize their strength estimation task.
2. Collected, cleaned and explored multiple data sets from various sources.
3. Designed and trained different argument strength models using Huggingface transformers, PyTorch/PyTorch lightning and multi-GPU processing.
4. Performed risk optimization of the models using the Ray-tune API and the MLFlow tracking API.
5. Performed error analysis and score analysis for model performance interpretability.

01/11/2020 – 01/05/2021 Munich, Germany

STUDENT INTERN SIEMENS ADVANTA CONSULTING

1. Built an expert system using reinforcement learning – optimally decides when to place reorder requests, and thereby reduce the supply chain costs.
2. Defined a modular, modifiable and realistic agent and environment, using the PyTorch framework, Gym and other libraries.
3. Determined the optimal model through a multi-experimental run and analysis.

01/11/2019 – 01/02/2020 Munich, Germany

UNIVERSITY RESEARCH ASSISTANT INSTITUT FÜR ETHNOLOGIE, LMU MUNICH

1. The work focused on Hate Speech Moderation in Social Media using Python and data science libraries.
2. Worked on scraping various hashtags and data from the Twitter platform using the Tweepy API.
3. Prepared reports on the social network analysis and network visualization.

01/12/2018 – 01/07/2019 Taipei, Taiwan

STUDENT INTERN HIGH PERFORMANCE COMPUTING AND DEEP LEARNING LABORATORY, TAIPEI TECH [NTUT]

1. A semester abroad opportunity that focused on training in the field of deep learning, computer vision and machine learning.
2. Worked with high-spectral image data and sensor data.
3. Actively participated in local university and lab activities, both technical and cultural.

● EDUCATION AND TRAINING

01/10/2019 – 15/07/2022 Munich

MSC. IN DATA SCIENCE (ELITE PROGRAM) Ludwig-Maximilians-Universität München

1. Informatics (Knowledge Discovery and Data Mining, Human Computation Interaction)
2. Statistics (Statistical Reasoning and Inference, Predictive modeling, Multivariate Statistics)
3. Data Science (Data Ethics and Data Security, Big Data Practical, Big Data Science Practicum, Current Research in Data Science)

Address Geschwister-Scholl-Platz 1, Munich | **Website** <https://www.lmu.de/> |

Field of study Inter-disciplinary programmes and qualifications involving Information and Communication Technologies (ICTs)

Final grade 1,91/5 (1 = highest) | **Level in EQF** EQF level 7 | **Type of credits** ECTS | **Number of credits** 120 |

Thesis Generalization in a Diversity-aware Argument Strength Models

01/07/2015 – 01/08/2019 Vellore, India

B.TECH IN COMPUTER SCIENCE AND ENGINEERING Vellore Institute of Technology Vellore

1. Math (Discrete Math and Graph Theory, Statistics, Calculus, Differential Equations, Linear Algebra)
2. Algorithms and Data Structures (Data structures, Theory of Computation, Problem Solving and Object Oriented Programming)
3. Software, Hardware and Network (Computer Architecture, Operating Systems, Database Management Systems, Network, Software Engineering, Distributed Systems)
4. Data Processing (Machine learning, Data mining, Data visualization, Natural language processing, Artificial intelligence)

Address VIT, Vellore Campus, Tiruvalam Rd, Katpadi, Vellore, India | **Website** <https://vit.ac.in/> |

Field of study Database and network design and administration , Software and applications development and analysis , Inter-disciplinary programmes and qualifications involving Information and Communication Technologies (ICTs)

Final grade 8,88/10 (10=highest) | **Level in EQF** EQF level 6 | **Type of credits** FFCS | **Number of credits** 180 |

Thesis Improved Malaria Parasite Detection in Blood Cells using RetinaNet model

● LANGUAGE SKILLS

Mother tongue(s): **HINDI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
GERMAN	A2	B1	A2	A2	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Machine Learning | Data Science | Data Collection, Data Processing, Data Analysis, Data Visualization | Python | Language Models | SQL | Git | Statistical Reasoning | Object oriented Programming | Natural language processing

● ADDITIONAL INFORMATION

PUBLICATIONS

[Towards a holistic view on argument quality prediction.](#) – 2022

Fromm, M., Berrendorf, M., Reiml, J., Mayerhofer, I., Bhargava, S., Faerman, E., & Seidl, T. (2022). Towards a holistic view on argument quality prediction. CoRR, abs/2205.09803. doi:10.48550/arXiv.2205.09803. arXiv: 2205.09803

[Argument mining driven analysis of peer-reviews.](#) – 2021

Fromm, M., Faerman, E., Berrendorf, M., Bhargava, S., Qi, R., Zhang, Y., . . . Seidl, T. (2021). Argument mining driven analysis of peer-reviews. Proceedings of the AAI Conference on Artificial Intelligence, 35(6), 4758–4766. doi:10.1609/aaai.v35i6.16607

NETWORKS AND MEMBERSHIPS

01/11/2015 – 31/08/2019

IEEE Student Member

1. An active member of the IEEE Student Organization.
2. Participated at various events and conferences at regional and local levels.

01/10/2019 – CURRENT

Member, Elitenetzwerks Bayern (ENB)

MANAGEMENT AND LEADERSHIP SKILLS

Student Zonal Representative, IEEE Region 10 (Asia-Pacific) Student Activities Committee 2018

1. In-charge of handling multiple IEEE student branches across the Region and helped organize global events and conferences.
2. Designed Posters and helped encourage participation in various IEEE events.

RECOMMENDATIONS

Prof. Dr. Göran Kauermann Professor

Contact for a Letter of Recommendation

Email goeran.kauermann@stat.uni-muenchen.de | **Phone** (+49) 8921803224

Prof. Dr. Thomas Seidl Professor (Thesis Supervisor)

Contact for a Letter of Recommendation

Email seidl@dbs.ifi.lmu.de | **Phone** (+49) 8921809191

Prof. Dr. Matthias Schubert Professor

Contact for a Letter of Recommendation

Email schubert@dbs.ifi.lmu.de | **Phone** (+49) 8921809328