# Debjit Paul

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## Research Interest

*Natural Language Processing, Deep Learning, Natural Language Understanding, Commonsense Reasoning, Knowledge-based Reasoning, Interpretable and Explainable Machine Learning*

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## Education

**2018–Current)** **PhD. Student Computational Linguistics Group and the interdisciplinary research training group AIPHES Computer Science**, *Heidelberg University*, Heidelberg, Germany.

Thesis Social Commonsense Reasoning with Structured and Unstructured Knowledge

Supervisor Prof.Dr.Anette Frank, Chair of Computational Linguistics Group

**2014–2017** **MSc. Computer Science**, *Saarland University*, Saarbrücken, Germany, *Grade-1.9 on German Scale*.

Thesis Multitasking Learning With Unreliable Labels

Supervisor Prof.Dr.Dietrich Klakow, Head of Language Spoken System Group

**2010–2014** **B.Tech in Computer Science**, *GuruNanak Institute of Technology*, Kolkata,India, *Grade-8.73/10*.

Thesis Improved Algorithm for Human and non Human Object Detection

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## Experience

**Jan.2021–March 2021** **Academic Intern**, *CopeNLU*, Denmark.
- **Department:** Computer Science
- **Supervisor:** Associate Prof.Dr. Isabelle Augenstein, Head of Copenhagen NLU research group

**Jan.2018–March 2018** **Intern**, *Amplexor International*, Germany.
- **Department:** Content Intelligence Team
- Task - To set up a Neural Machine Translation(NMT) (various language pairs) from scratch. Developing pipeline which contains steps such as data acquisition, data preparation, training NMT.

**Oct.2016–Nov.2016** **Research Assistant**, *Saarland Univesity*, Saarland, Germany.
- **Department:** Foundation of Exact Algorithm
- Programming tasks for the organization of the programming challenge **PACE**.
- The goal is to generate instances to be used in the challenge.

**Nov.2015–Feb.2016** **Research Assistant**, *Saarland Univesity*, Saarland, Germany.
- **Department:** Machine Learning Group
- Crafted Algorithms using Python to filter data (Arxiv dataset) collection results.
- Concept utilized are Natural Language Processing, Prepossessing text data.

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## Publication

- **Debjit Paul**, and Anette Frank *"Social Commonsense Reasoning with Multi-Head Knowledge Attention"*, Findings of Empirical Methods in Natural Language Processing (EMNLP 2020)
- **Debjit Paul**, Maria Becker, Juri Opitz, Graeme Hrist and Anette Frank *"Argumentative Relation Classification with Background Knowledge"*, [**Nominated as Best Paper**] Proceedings of the 8th International Conference on Computational Models of Argument (COMMA 2020), September 2020, vol. 326, Frontiers in Artificial Intelligence and Applications, pp. 319–330, Computational Models of Argument.

- **Debjit Paul**, Anette Frank *"Ranking and Selecting Multi-Hop Knowledge Paths to Better Predict Human Needs"*, Proceedings of the Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2019), Minneapolis, Minnesota, USA, vol. 1, pp. 3671–3681.
- **Debjit Paul**, Mittul Singh, Michael A. Hedderich, Dietrich Klakow *"Handling Noisy Labels for Robustly Learning from Self-Training Data for Low-Resource Sequence Labeling"*, Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics: Student Research Workshop (NAACL-SRW 2019), Minneapolis, Minnesota, USA, pp. 29–34
- Anup Kumar Thander, Goutam Mandal, **Debjit Paul** *"Numerical Comparison of multi-step iterative methods for finding roots of non-linear equations, International Journal of Mathematics Trends and Technology "*, Volume4 Issue 8-September 2013 [ISSN: 2231-5373]

## Reviewing

2021  *North American Chapter of the Association for Computational Linguistics (NAACL)*

2021  *European Chapter of the Association for Computational Linguistics (EACL)*

2020  *Empirical Methods in Natural Language Processing (EMNLP)*

2020  *Joint Conference on Lexical and Computational Semantics (\*SEM)*

2019  *German Conference on Artificial Intelligence (KI)*

2019  *COmmonsense INference in Natural Language Processing (COIN)*

## Technical skills

Language  Python, R, Java

Tools  Tensorflow, pyTorch, AllenNLP, scikit-learn, gensim, NLTK, Dynet, Standford CoreNLP, Theano, Matlab

## Achievements

- Poster Presentation: "Graph-based Multi-Hop Commonsense Knowledge", EurNLP 2019, London, UK
- Winner of HQ Hackathon 2017, at Trivago, Dusseldorf, Germany

## Languages

English  **Proficient**

German  **Basic**

Bengali & Hindi  **Native**

## References

- Available upon request

## Declaration

- I hereby declare that all the details furnished above are true to the best of my knowledge and belief