

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

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

Experience

- Jan.2018–
March
2018 **Intern**, Amplexor International, Germany.
o **Department:** Content Intelligence Team
o 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 University, Saarland, Germany.
o **Department:** Foundation of Exact Algorithm
o Programming tasks for the organization of the programming challenge **PACE**.
o The goal is to generate instances to be used in the challenge.
- Nov.2015–
Feb.2016 **Research Assistant**, Saarland University, Saarland, Germany.
o **Department:** Machine Learning Group
o Crafted Algorithms using Python to filter data (Arxiv dataset) collection results.
o Concept utilized are Natural Language Processing, Prepossessing text data.

Publication

- o **Debjit Paul**, and Anette Frank “*Learning Contextualized Inference Rules for Story Generation*”, Under Review
- o **Debjit Paul**, and Anette Frank “*Hypothetical Reasoning meets Abductive Commonsense Reasoning*”, Under Review
- o **Debjit Paul**, and Anette Frank “*Social Commonsense Reasoning with Multi-Head Knowledge Attention*”, Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing: Findings (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, Stanford 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**

Additional

- GitHub: <https://github.com/debjitpaul>
- Google Scholar: <https://scholar.google.de/citations?user=jJ8MjZMAAAAJ&hl=en&oi=ao>
- LinkedIn: <https://www.linkedin.com/in/debjit-paul/>

References

- Available upon request