Saadullah Amin

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EDUCATION

Saarland University, Saarbrücken, Germany — *April 2019 - Present*
Ph.D. Candidate — *Department of Computational Linguistics*
Advised by Prof. Dr. Günter Neumann

NUST, Islamabad, Pakistan — *September 2011 - June 2015*
Bachelor of Science, Electrical Engineering — *School of Electrical Engineering and Computer Science*

RESEARCH INTERESTS

Machine Learning, Information Extraction, Deep Learning

WORK EXPERIENCE

Junior Researcher, DFKI, Saarbrücken, DE — *Apr 2019 - Present*

- Working on EU and BMBF funded projects Precise4Q, DEEPLEE and CoRA4NLP.
- Member of Question Answering and Information Extraction group lead by Prof. Günter Neumann.
- Co-supervising Master theses and assisting in lectures at Saarland University.

Machine Learning Engineer, EDT Software, Remote — *Aug 2017 - Mar 2019*

- Research and development of natural language processing and machine learning algorithms for electronic discovery (e-discovery).
- Applications Developed: Persons of Interest (POI) Detection, Emails Footer and Signature Detection, Emails Discombobulation, Email Threads Reconstruction, Language Identification, Documents Similarity Analysis, Concepts Clustering, Intelligent Keywords, Active Learning for Predictive Coding and NSFW Images Recognition.
- Member of EDT AI Lab.

Freelance Machine Learning Engineer, Fiverr, Remote — *Feb 2016 - Dec 2017*

- Worked on projects in the areas of machine learning, natural language processing and computer vision.
- Developed solutions for startups, SMEs and R&D institutes.
- More than 50 projects delivered with perfect ratings of 5.0 (https://www.fiverr.com/perfectionin5).

Technology Lead, Sellomni, Remote — *Jun 2016 - Oct 2016*

- Built core-analytics engine for Tribe service – a large-scale social network of products communities.
- Developed language and vision models with products latent and manifest features to automatically generate, expand and monitor customers.
- Developed prototype website and set up the cloud infrastructure for initial round of funding and lead a team of three engineers.

Intern, SeeAlgo, Remote — *Feb 2016 - May 2016*

- Worked on design and development of NLP algorithms for SeeAlgo's web based service Doculyzer, where the goal was rapid analysis and understanding of text documents using then state-of-the-art representations: word2vec and doc2vec.

Research Assistant, Neuroinformatics Lab, NUST, PK *Aug 2015 - Dec 2015*

- Researched seizure detection algorithms and devised a novel framework utilizing RUSBoost to build patient specific seizure detection classifier based on temporal, spatial and spectral features extracted from scalp EEG of pediatric patients with CHB-MIT dataset.

PUBLICATIONS

Amin, S., & Neumann, G. (2021). T2NER: Transformers based Transfer Learning Framework for Named Entity Recognition. In *Proceedings of the 16th Conference of the European Chapter of the Association for Computational Linguistics: System Demonstrations* (pp. 212–220). ACL.

Amin, S., Varanasi, S., Dunfield, K. A., & Neumann, G. (2020). LowFER: Low-rank Bilinear Pooling for Link Prediction. In *International Conference on Machine Learning* (pp. 257-268). PMLR.

Amin, S., Dunfield, K. A., Vechkaeva, A., & Neumann, G. (2020). A Data-driven Approach for Noise Reduction in Distantly Supervised Biomedical Relation Extraction. In *Proceedings of the 19th SIGBioMed Workshop on Biomedical Language Processing* (pp. 187-194). ACL.

Varanasi, S., **Amin, S.**, & Neumann, G. (2020). CopyBERT: A Unified Approach to Question Generation with Self-Attention. In *Proceedings of the 2nd Workshop on Natural Language Processing for Conversational AI* (pp. 25-31). ACL.

Amin, S., Neumann, G., Dunfield, K., Vechkaeva, A., Chapman, K. A., & Wixted, M. K. (2019). MLT-DFKI at CLEF eHealth 2019: Multi-label Classification of ICD-10 Codes with BERT. In *CLEF (Working Notes)*.

Choudhry, A. J., Badshah, A., & **Amin, S.** (2017). Real-time flight altitude estimation using phase correlation with Gram polynomial decimation. In *Thirteenth International Conference on Quality Control by Artificial Vision 2017* (Vol. 10338, p. 103381A). International Society for Optics and Photonics.

Amin, S., & Kamboh, A. M. (2016). A robust approach towards epileptic seizure detection. In *2016 IEEE 26th International Workshop on Machine Learning for Signal Processing (MLSP)* (pp. 1-6). IEEE.

TECHNICAL SKILLS

Python	Proficient
C++, R, C#, HTML	Working Proficiency
Tools/OS	PyTorch, HuggingFace Transformers, TensorFlow, scikit-learn, NumPy, NLTK, LaTeX, Unix, Windows

SERVICES

Program Committee member / Reviewer	EMNLP 2021
Volunteer	EACL 2021

REFERENCES

- Prof. Dr. Günter Neumann, Research Fellow and Principal Researcher, DFKI
  guenter.neumann(at)dfki.de
- Prof. Dr. Josef van Genabith, Head of Multilinguality and Language Technology Lab, DFKI
  josef.van_genabith(at)dfki.de