



Prof. R. Wattenhofer

Classifying Medical Text using State-of-the-art Natural Language Processing Techniques

Recent advances in deep learning architectures for Natural Language Processing (NLP) have triggered an unprecedented progress in the field. In the last couple of years, NLP models based on an architecture called Transformer, have achieved human or super-human performance in a number of tasks that until recently were impossible for machines.

This Master Thesis focuses in the sub-field of medical NLP, where these advances have not been fully implemented yet due to the complexity of the tasks. Medical text is specially challenging given the specific vocabulary, abbreviations and even the lack of grammatical structure of the sentences. We will study different approaches to process medical text with the aim of improving the classification of the medical condition of patients from notes taken by doctors. This problem has a practical impact in that it can help hospital reduce the amount of required paperwork, which in turn frees resources that can be used in attending more patients.



Requirements: Creativity and programming skills are an advantage. The student(s) should be able to work independently!

Interested? Please contact us for more details!

Contacts

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