Jordy Van Landeghem

AI Researcher

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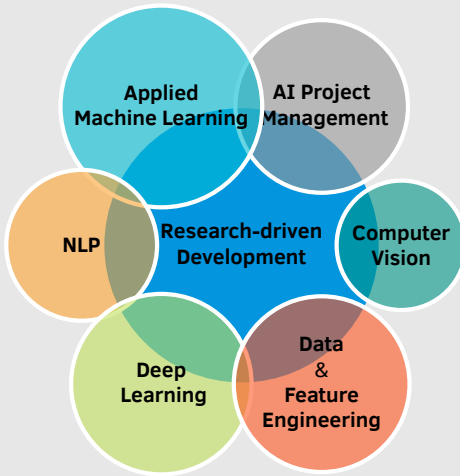
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⚙ Jordy-VL

Skills
Overview

Programming

Python • SpaCy, scikit-learn, NLTK, …

Deep learning • TensorFlow, PyTorch

Javascript • MongoDB • Node JS

Linux Shell • Perl • Regex

Languages

Language	
Dutch	● ● ● ● ●
English	● ● ● ● ●
Spanish	● ● ● ● ○
French	● ● ● ● ○
German	● ● ● ○ ○
Portuguese	● ● ○ ○ ○

Experience

Jun 2017 - Present

AI/NLP Research Engineer **Contract.fit [Brussels]**
- Researching and prototyping the state-of-the-art in NLP to unlock the value trapped in all sorts of complex documents.
- Designed and implemented Machine Learning pipelines for Document Classification and Information Extraction.
- Applied end-to-end AI engineering & project management in the context of various application domains, insurance, banking, legal.
- Supervised 7 Artificial Intelligence Master's thesis internships

Mar 2017 - June 2017

Research Intern
Language Modelling Algorithms **Nuance Communications [Aachen]**
- Performed research into advanced regularisation techniques for RNN-based Language Models.
- Contributed to an in-house TensorFlow toolkit and made implementations of biLSTM induction of character-based word embeddings.
- Experimented extensively with different training setups and documented empirical results for future research.

Aug 2016 - Feb 2017

Research Intern
NLP Development for Dialogue Systems **Oracle [Barcelona]**
- Collaborated with Oracle's Service Cloud development team with the main assignments Chat and Virtual Assistant technology.
- Investigated feasibility of Sequence-to-Sequence Neural networks for Dialogue Modelling & Chatbot Technology
- Presented results at *the 27th Conference of Computational Linguistics in the Netherlands (CLIN27)*

Education

2020 - Present **Ph.D in Engineering Sciences, Computer Science** **KU Leuven**
Project: *Intelligent Automation for AI-driven Document Understanding*

2015 - 2017 **Master of Science, Artificial Intelligence:**
Speech and Language Technology (Magna Cum Laude) **KU Leuven**
Thesis: *Sequence-to-Sequence Learning for End-to-End Dialogue Systems*

2014 - 2015 **Master of Arts, Linguistics:**
Corpus- and usage-based Methodologies (Magna cum Laude) **KU Leuven**
Thesis: *-ing seen through its Dutch Translation Equivalents: a contrastive Parallel Treebank based study*

Research Publications

Van Landeghem, Jordy, Matthew Blaschko, and Marie-Francine Moens. *Evaluating Strong Calibration for Probabilistic Structured Prediction* To be submitted, target: ICML 2022.

Van Landeghem, Jordy, Matthew Blaschko, Bertrand Anckaert, and Marie-Francine Moens. *Benchmarking Scalable Predictive Uncertainty in Text Classification* Submitted to Journal of Machine Learning Research. JMLR, 2020.

Van Landeghem, Jordy. `uncertainty-bench` (Version 0.0.1) [Computer software], 2021. @ `https://github.com/Jordy-VL/uncertainty-bench`

Van Landeghem, Jordy, Matthew Blaschko, Bertrand Anckaert, and Marie-Francine Moens. *Predictive uncertainty for probabilistic novelty detection in text classification.* In Proceedings ICML 2020 Workshop on Uncertainty and Robustness in Deep Learning. ICML, 2020.

Francis, Sumam, Jordy Van Landeghem, and Marie-Francine Moens, *Transfer Learning for Named Entity Recognition in Financial and Biomedical Documents, 2019, Information 10.8 (2019): 248.*