Jordy Van Landeghem

AI Research Engineer

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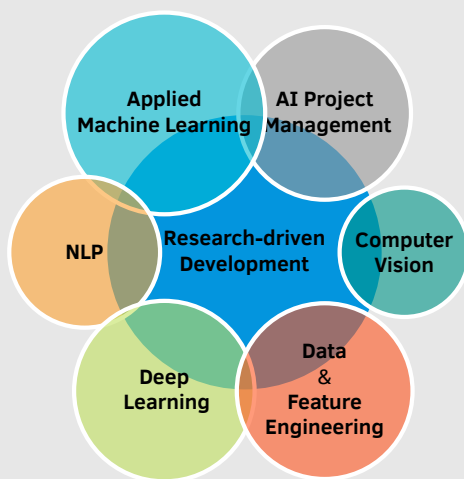
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Skills

Overview

Programming

Python • SpaCy, scikit-learn, NLTK, …

Deep learning • TensorFlow, PyTorch

Javascript • MongoDB • Node JS

Linux Shell • Perl • Regex

Languages

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.
- Successfully supervised 2 Artificial Intelligence Master's thesis internships with topics: Computer Vision & AI for Business processes

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
Relevant coursework:
Natural Language Processing, Machine Learning, Data Mining,
Speech Recognition, Information Retrieval, Neural Networks
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 & Interests

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.*

Distributional Semantics & Compositionality, Intelligent Automation, Document Understanding, Bayesian Neural Networks, Machine Intelligence