

SUMMARY

Motivated science lead with more than 10 years of experience in natural language processing and machine learning. Team player dedicated to promoting culture of trust and personal growth. Proven track record of bringing innovation into a product-focused environment.

PROJECTS

Clinical Information Extraction System

Architect and contributor, Babylon Health

A clinical information system built using the spaCy architecture and leveraging a clinical ontology, bespoke relation extraction rules and cutting edge SRL and coreference resolution models.

Consultation Notes Generation

Science lead, Babylon Health

Generation of clinical consultation notes based on an automatically generated transcript of the consultation.

Data-Driven Differential Diagnosis

Science lead, Babylon Health

Predicting possible diagnosis or treatment based on co-occurrence data using Bayesian models.

News Analytics

Co-Architect and contributor, Datamaran

A news analytics system that ingests and processes news articles as they are published and from a backlog.

LEADERSHIP

- Great at promoting innovation by aligning product goals with science capabilities.
- Proven record of building team an NLP team from the ground up and establishing a culture of trust, innovation and growth.

TECHNOLOGY

- tensorflow, pytorch, transformers
- spaCy, scikit-learn, numpy, pandas
- Kafka, Redis
- continuous integration workflow
- micro-service architecture

CONTACT

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EXPERIENCE

Lead NLP Scientist

Babylon Health, June 2019 to present

I led the team through a couple of company reorganisations that shifted our focus closer to the product. I am currently leading two strategic innovation initiatives focusing on generation of consultation notes and data-driven triage.

Senior NLP Scientist

Babylon Health, Dec 2018 to May 2019

I led the newly established NLP squad as part of the Research Tribe. We focused on speech-to-text processing, sentence similarity metrics, and maturing and expanding our information extraction stack.

NLP Scientist

Babylon Health, Feb 2017 to Nov 2018

I led the transition of the Information Extraction system from a GATE architecture to a spaCy architecture. In addition, I worked on word sense disambiguation, sentence-level textual similarity and a custom rule engine for annotation processing. I was also coordinating the hiring process for NLP.

Data Scientist

eRevalue (now Datamaran), Sep 2015 to Jan 2017

I was part of a small team that designed and delivered a live news analytics module and a Kafka data ingestion and processing architecture for the Datamaran platform.

Research Assistant

Bulgarian Academy of Sciences, Apr 2010 to Dec 2011

I was part of a group working on BG-EN translation pair as part of an EU-funded science project. I built a morphosyntactic part-of-speech tagger and a dependency parser, and integrated them in a machine translation pipeline.

EDUCATION

University of Sussex

PhD in Clinical NLP, 2012-2015

My thesis was about machine-learning based method for information extraction from primary care notes. It focused on data annotation and application of machine learning.

University of Tübingen

MA in Computational Linguistics, 2006-2009

University of Tübingen

BA in Computational Linguistics, 2003-2006