SKILLS

TECHNICAL SKILLS

Python • NLP • Pytorch scikit-learn • spacy • Airflow Analytics • Deep Learning Ontologies • AWS (no)SQL Feature engineering • Scraping

PUBLIC SPEAKING

2022/05/10 Crunch Conference

Workshop on distant supervision in NLP

2022/08/19 Dataset Creation and Curation podcast at DataTalks.club

< Podcast video link >

2019/06/20 Beam Summit Europe

Large scale Natural Language Processing of biomedical literature < video link >

2018/10/15 Minds Mastering Machines conference

Clustering and classification when to use which technique < video link >

2018 AI & Gender Club meetup

Natural Language Processing introduction, a series of 3 talks

EDUCATION

UNIVERSITY OF EDINBURGH

BSC ARTIFICIAL INTELLIGENCE & COMPUTER SCIENCE HONS 2.1 September 2012 - June 2016 Edinburgh, UK

HONOURS PROJECT

WeCare

WeCare is a care coordination platform, providing a digital interface to individual patient centred social care process. WeCare was showcased by the Clinton Global Initiative University Network (CGI UN) in a social enterprise conference at UC Berkeley in April 2016.

AWARDS

2015 Google prize for System Design Project 2015 JacobsHack 2nd prize 2015 Smart Data Hack 1st prize 2014 Duke of Edinburgh Award

EXPERIENCE

COMTURA | COFOUNDER AND HEAD OF MACHINE LEARNING May 2021 - Present | Nuremberg, Germany

- Managed 2 direct ML reports, wearing many hats as a cofounder
- Productionised BERTopic topic modelling to identify coherent sales topics from sales conversations
- Architected serverless QA and summarisation deployments to reduce Kubernetes RAM pressure
- Created proof of concept sales entity extraction system using spacy NER and dependency parse
- Implemented Hubspot CRM integration modelling Hubspot objects and persisting Hubspot data with internal models
- Created and executed marketing plan with articles, webinars coordinating marketing and CEO

HEALX | NATURAL LANGUAGE PROCESSING ENGINEER February 2019 - March 2021 | London, UK

- NLP lead on large scale biomedical NER extraction & NLP pipeline processing 30 million documents regularly with Dataflow
- Delivered 2x speed up on entity linking using ANN vector lookup
- Improved entity linking by 17% using coreference resolution model

AGRIBOT | COMPUTER VISION ENGINEER (CONTRACT) May 2019 - December 2020 | London, UK

- Develop photograph based crop disease classifier
- Benchmark optimal computer vision models for fast inference

RESOLVING LTD | DATA SCIENTIST

August 2017 - February 2019 | London, UK

- Created reproducible machine learning products in the complaint space
- Data Scientist #1 building out data science team
- 10x reduction in complaint classification data requirements with transfer learning
- Pitch and develop Airflow pipeline to build training data, monitor model drift, and data quality
- Create timeseries and text based churn model from complaint data

MARG UK LTD | NATURAL LANGUAGE PROCESSING ENGINEER August 2016 - August 2017 | London, UK

- Delivered email and chat analytics to product team based on mining available data
- Built online data processing pipeline exposed with Flask web service to deliver 25% better accuracy and 4x speedup for document classification