

Christiaan Swart

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SKILLS

TECHNICAL SKILLS

Python • NLP • Pytorch
scikit-learn • spacy • Airflow
Feature engineering • Scraping
Analytics • Deep Learning
Ontologies

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 CIO

May 2021 - Present | London, UK

- Cofounder of Comtura, leading machine learning team of 3
- Delivered faiss and spacy based rule engine to model sales process
- Architected lambda based transcription summary service

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

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
- Identify consumers at risks based on supervised learning enhanced with ontologies
- Enhanced complaint analytics data quality with LDA topic modelling

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