Dan Saattrup Nielsen

PhD candidate in Mathematical Logic

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I am a final year PhD candidate in Mathematical Logic, and am interested in the interaction between machines and human language. Currently I am developing a natural language processing add-on to StandardsRepo, a word processing web app made for large scale collaboration on technical documents.

EDUCATION

PhD in Mathematics
University of Bristol

09/2016 – Present — *Bristol, UK*

Courses
- Statistical Methods I & II
- Advanced Topics in AI

MSc in Mathematics
University of Copenhagen

09/2011 – 07/2016 — *Copenhagen, Denmark*

Courses
- Functional Programming
- Object-oriented Programming
- Database Programming

WORK EXPERIENCE

AI Researcher
StandardsRepo

09/2019 – 12/2019 — *Bristol, UK*

Contact: Tom Bartley – tom@barbal.co

Teaching assistant
University of Bristol and Copenhagen

01/2014 – Present — *Bristol and Copenhagen*

Achievements/Tasks
- In charge of weekly exercise sessions for undergraduate students in Mathematics.
- Gave five lectures in a third year Mathematics course with ~50 students.

Part-time software developer
GE Revision & Rådgivning

05/2009 – 01/2014 — *Hvidovre, Denmark*

Accounting company

Achievements/Tasks
- Automated the company's accounting process, reducing manual Excel labour from ~5 hours per account down to a minute.
- Developed cash register software which allowed day-to-day cash flow updates from the company's clients, allowing a more dynamic approach to the audit process.

Contact: Benjamin Jensen – +45 70 220 880

SKILLS

Python | PyTorch | TensorFlow | Git | SQL

PERSONAL PROJECTS

[Package] NaturalSelection (08/2019 – Present)
- Python package implementing a genetic algorithm to optimise hyperparameters of neural networks, with a Pythonic API

AutoPoet (09/2019 – Present)
- Produce Haiku poems from text sources
- Built machine learning model that counts syllables in English words with xx% accuracy, trained on the Moby Hyphenator II corpus from Project Gutenberg

Scholarly (05/2019 – Present)
- Classifies abstracts of scientific articles into six categories with a 86% validation F1-score, based on data from arXiv.org

CERTIFICATES

Natural Language Processing Nanodegree (09/2019 – 10/2019)
Udacity nanodegree

Deep Learning Certificate (06/2019 – 09/2019)
Coursera specialisation

Stanford Machine Learning (05/2019 – 06/2019)
Coursera course

IBM Data Science Certificate (04/2019 – 05/2019)
Coursera specialisation

LANGUAGES

Danish
Native or Bilingual Proficiency

English
Full Professional Proficiency

German
Limited Working Proficiency

Persian
Elementary Proficiency

INTERESTS

Climbing | Yoga