

Nicklas Hansen

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Research interest

I am highly interested in research on self-supervised learning, semi-supervised learning, transfer learning as well as their applications in particularly reinforcement learning, audio and computer vision.
I want to make artificial intelligence available to a broader audience through research and open source projects.

Education

University of California, Berkeley

Visiting Graduate Student

A semester devoted to special topics in deep learning as well as data-driven innovation.
Recipient of the Innovation Fund Denmark and Spar Nord Fonden Fellowship.

Berkeley, CA

Spring 2020

Technical University of Denmark

M.Sc. Mathematical Modelling & Computing GPA: 10.2 (-3 to 12)

Largely focused on special topics in deep learning such as deep reinforcement learning, deep unsupervised learning, optimization for deep learning and research on novel applications of deep learning.

Kongens Lyngby, Denmark

Feb 2019 -

Technical University of Denmark

B.Sc. Software Engineering GPA: 8.2 (-3 to 12)

Courses in computer science, statistics, machine learning, AI and project management.

Kongens Lyngby, Denmark

Sep 2015 - Dec 2018

Nanyang Technological University

Exchange Student

Courses in computer vision, cryptology and large-scale software engineering.

Singapore, Singapore

Fall 2017

Professional experience

Technical University of Denmark

Teaching Assistant

02456 Deep Learning and 02454 Introduction to Cognitive Science.

I taught 6 hours a week, developed course material, corrected assignments and supervised 50+ students' projects on the topics of deep reinforcement learning and self-supervised learning.

Kongens Lyngby, Denmark

Fall 2019

Retune DSP

Assistant Software Developer

I help a team of engineers build and maintain deep learning pipelines for embedded voice control systems.

Kongens Lyngby, Denmark

Feb 2019 -

Raffle.ai

Machine Learning Intern

I reimplemented the SyntaxSQLNet cross-domain text-to-SQL parser in PyTorch and improved its accuracy by 12%.

<https://github.com/raffle-interns/SyntaxSQLNet>

Copenhagen, Denmark

Summer 2019

Nordic Transition

Lead Software Developer

I developed and maintained a GDPR-compliant data management and analysis platform for the HR industry.

Gentofte, Denmark

Jul 2017 - Dec 2019

Summer schools

Abo Akademi

Development of high-assured autonomous systems

Turku, Finland

Aug 2018

Tallinn Technical University

High-assured autonomous systems

Tallinn, Estonia

Jun 2018

Certificates

Dansk Standard
ISO21500 Guidance on Project Management

Copenhagen, Denmark
Jan 2018

Current projects

Short Term Blood Glucose Prediction Based on Continuous Glucose Monitoring Data

To be submitted

To be submitted for IEEE Engineering in Medicine and Biology Society by Jan 2020

A. Mohebbi, A. Johansen, N. Hansen, P. Christensen, M. Jensen, J. Tarp, H. Bengtsson, M. Mørup

Open source contributions

Optimization in deep learning

Dec 2019

Collection of recent deep learning optimization algorithms

<https://github.com/nicklashansen/neural-net-optimization>

How to build RNNs and LSTMs from scratch with NumPy

Oct 2019

Educational material on recurrent neural networks (100+ stars)

https://github.com/nicklashansen/rnn_lstm_from_scratch

Minimal Neural Architecture Search

Oct 2019

A minimalistic NAS implementation for educational purposes (30+ stars)

<https://github.com/nicklashansen/minimal-nas>

Asynchronous Advantage Actor-Critic (A3C)

Jun 2019

Implementation and ablation study of A3C on common RL environments

<https://github.com/nicklashansen/a3c>

Game development

Atlas, a battleground for the Starcraft II World Championships

Dec 2012 - June 2013

Used in GSL, GSTL, IPL, DreamHack, Assembly and more (200k+ spectators)

<https://tl.net/forum/sc2-maps/388872-2-df-atlas>

Technical skills

Programming

Python, Matlab, SQL, C#, C++, C, Java, JavaScript

Deep Learning

PyTorch, TensorFlow

Others

Linux, Git, Azure, AWS, Docker, Conda, Jupyter Notebook, Google Colab, Latex

Languages

Danish Native

English Professional

German Basic