# Erik **Linder-Norén**

M.Sc. Student in Machine Learning & Artificial Intelligence

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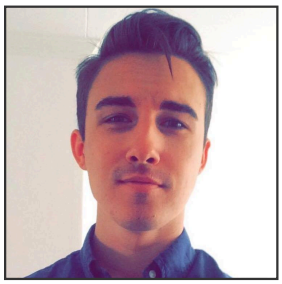

## Summary


Software engineer specializing in machine learning and artificial intelligence. I love engaging myself in side-projects for the purpose of learning new tools and technologies. I have authored the machine learning library ML-From-Scratch on GitHub, where I have implemented an extensive list of fundamental machine learning models and algorithms from scratch in vanilla Python. The project currently has over 7.5k stars on GitHub and is one of the most popular projects on GitHub with a focus on bare bones machine learning and deep learning algorithm implementations.


## Education

### Vrije Universiteit
*Sep. 2017 - Exp. Jun. 2018*

Graduate Exchange Student in Computer Science — *Amsterdam, Netherlands*

- Master's Profile: Machine Learning & Artificial Intelligence

### University of Amsterdam
*Sep. 2017 - Exp. Jun. 2018*

Graduate Exchange Student in Computer Science — *Amsterdam, Netherlands*

- Master's Profile: Machine Learning & Artificial Intelligence

### Linköping University
*Aug. 2016 - Jun. 2018*

Master of Science in Computer Science — *Linköping, Sweden*

- Master's Profile: Machine Learning & Artificial Intelligence

### ETH Zürich
*Sep. 2015 - Jun. 2016*

Undergraduate Exchange Student in Computer Science — *Zürich, Switzerland*

- Coursework included machine learning, combinatorial optimization & signal processing

### Linköping University
*Aug. 2013 - Jun. 2016*

Bachelor of Science in Computer Science — *Linköping, Sweden*

Please see personal website for complete coursework.

## Recent Projects

### ML-From-Scratch
*Jan. 2017 -*

Library of machine learning algorithms implemented From Scratch — *Python | NumPy | Visualization*

- Extensive library of Machine Learning models implemented from scratch
- +8000 stars on GitHub

### Keras-GAN
*Aug. 2017 -*

Implementations of Generative Adversarial Networks in Keras — *Python | Keras*

- Implementations of various Generative Adversarial Networks in Keras
- +1200 stars on GitHub

### NapkinML
*Jan. 2018 -*

A tiny library with Pocket-sized implementations of machine learning models — *Python | NumPy | Visualization*

- Minimal implementations of machine learning models in NumPy. Most of which fit in a tweet
- +300 stars on GitHub

### Demonstrationsmiljö för platsberoende auditiva och visuella meddelanden (DAVE)
*Jan. 2016 - Jun. 2016*

Bachelor of Science Thesis — *C++*

- Built a communications system for larger institutions which enables targeted auditive communication by Bluetooth

Please visit my personal website and GitHub profile for more details

# Relevant Experience

### Master's Thesis Student
*Jan. 2018 - Jun. 2018*

Zenuity — *Gothenburg, Sweden*

- 3D bounding box detection for autonomous cars
- Unsupervised domain adaptation between different image domains
- **Tools:** Python, PyTorch, Gerrit, Matplotlib

### Data Science Consultant
*Oct. 2017 -*

Signality — *Linköping, Sweden*

- 2D bounding box detection in sports
- Human pose estimation in sports
- Predictive analytics of soccer matches
- **Tools:** Python, Tensorflow, Git, Matplotlib

### Research Engineer
*Jun. 2017 - Aug. 2017*

ContextVision — *Linköping, Sweden*

- Image classification using deep Convolutional Neural Networks applied to research problems in computer vision
- Applied Generative Adversarial Networks to research problems in computer vision
- **Tools:** Python, Keras, Git, Matplotlib

### Software Developer
*May. 2016 - May. 2017*

Ericsson — *Kista, Sweden*

- Developed a dynamic Radio Base Station graph visualization tool that based on a configuration files display the inner connection of the RBS
- **Tools:** Java, Jenkins, Git

### Software Developer
*Jun. 2014 - May. 2017*

Ericsson — *Kista, Sweden*

- Built a command-line interface for handling communication and manipulation of Radio Base Stations using the NETCONF protocol
- Helped develop the COM abstraction layer on top of the NETCONF common library at Ericsson
- **Tools:** Java, Jenkins, Git

# Skills

| | |
|---|---|
| **Software (advanced)** | Python (NumPy, TensorFlow, Keras, Pytorch), Java, R, Javascript, C/C++, Matplotlib |
| **Software (basic)** | SQL, HTML, CSS, LaTeX, Linux, Git, Perl, MATLAB |
| **Languages** | Swedish, English. |
| **Other** | Swedish driver's license (B). |