

# Maxim Afteniy

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## ABOUT ME

Skillful Machine Learning and AI specialist with over four years of experience solving complex real-world problems using the latest Deep Learning technologies. I am used to working efficiently in cross-functional teams following clean code practices and test-driven development, resulting in a technical debt free and extensible end product. I am eager to humbly learn everyday novel technologies/approaches and teach others as well. I enjoy spending my time studying and re-implementing, exciting research in AI, Machine Learning and Data Science.

## EDUCATION

**Aalto University**, Finland

*M.Sc*, Machine Learning, Data Science and Artificial Intelligence, April 2021,

*Thesis*: [Predicting time series with Transformer](#)

*Focus areas*: Multi-agent Reinforcement learning, Computer Vision, Efficient Transformers and Bayesian Inference methods.

*B.Sc*, Computer Science, Sep 2015 - May 2018,

*Thesis*: [Gradient-based Deep Reinforcement Learning](#) (Applying Q-learning and diving deep into the update formulas)

## EXPERIENCE

**Machine Learning Engineer**

Jun 2022 - Oct 2024

Apple

Barcelona, Spain

Enhanced ML pipeline efficiency, reducing task completion time from weeks to hours by migrating to PySpark. Contributed to NLP and ML models, enhancing Language Understanding and consequently improving user experience. Collaborated cross-functionally to implement solutions, playing a key role in advancing Siri functionality, especially for the Finnish locale.

**Machine Learning Engineer**

Jan 2021 - Feb 2022

LaDiMo Oy

Espoo, Finland

As a solo ML Engineer led E2E Deep Learning R&D work for real-time 3D sensor (training data processing, prototyping, model training, deployment for inference) use cases, tasks included: 3D point-cloud semantic segmentation, Sim2Real domain adaptation and deployment to C++/CUDA pipeline via TensorRT to a mobile Jetson device. Key focus areas were Deep Learning with PyTorch, depth-image based Semantic segmentation, and a real-world domain adaptation.

**Machine Learning Trainee**

Oct 2020 - Dec 2020

Nokia Oyj

Espoo, Finland

Tasks included research in Federated Learning/Quantization and implementation of the state-of-the-art (at the time) algorithm for Deep Learning based Unsupervised Classification (SCAN) with Contrastive Learning.

**Deep Learning Course Assistant**

Sep 2020 - Dec 2020

Aalto University

Espoo, Finland

Teaching assistant for an introductory level Deep Learning course.

Key areas were mostly helping students with their weekly questions during the class.

**AI Research Trainee**

Jun 2019 - Aug 2019

Nokia Bell Labs

Espoo, Finland

5G standardization research included: Deep Reinforcement Learning with Deep Contextual Bandits in Multi-Agent setting to optimize 5G telecommunications.

**Machine Learning Course assistant**

Sep 2018 - Dec 2018

Aalto University

Espoo, Finland

Teaching Assistant a Machine Learning: Basic Principles course.

Responsibilities included guiding students in their doubts about classical ML principles.

Over 400 active course participants.

**Full Stack Developer**

May 2017 - Aug 2018

Vuolearning Oy

Espoo, Finland

Full Stack developer in a growing startup. Due to shortage of employees, singlehandedly migrated whole website to React from Angular 1 (without prior Angular knowledge), added new features like user chat and custom layout arrangement. Stack used: React.js, Node.js and MySQL.

**SKILLS**

**Theoretical:** Deep Reinforcement Learning, Contrastive Learning, Variational Inference, Bayesian Methods, Test Driven Development, Multivariate Time-Series Forecasting, LLM Fine-Tuning

**Technical:** Pytorch, C/C++, Tensorflow/Keras, CUDA, OpenCV, Unix, Docker, AWS/Google Cloud, Java/Scala, PySpark, CI/CD, Bash.

**Languages:** English (excellent), Finnish (native), Russian (native), Spanish (B1).