Nejc Ilenič

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Education

- **University of Ljubljana, Faculty of Computer and Information Science** Ljubljana, Slovenia
  Master's degree, Computer Science *2015 – 2017*
- **University of Ljubljana, Faculty of Computer and Information Science** Ljubljana, Slovenia
  Bachelor's degree, Computer Science *2011 – 2015*

Experience

- **GlobalWebIndex** London, United Kingdom
  Machine Learning Engineer *Feb 2018 - April 2020*
  - **Pollpass**: I was working in a remote team building Pollpass, a distributed, real-time surveying platform. My responsibilities were leading the design and implementation of two key components; an outbound data pipelining/warehousing system and development of intelligent algorithms for ensuring data quality.
- **Bioinformatics Laboratory, University of Ljubljana** Ljubljana, Slovenia
  Software Developer *Aug 2016 - Sep 2017*
  - **Orange**: My main responsibility was to design and implement a system for simplifying the embedding process of digital images. We deployed various pre-trained convolutional neural networks to a remotely accessible service and exposed the functionality in Orange (an open-source machine learning and data visualization software available at https://orange.biolab.si).
- **4th Office** Ljubljana, Slovenia
  Software Developer *Aug 2015*
  - **Internship**: I attended a one-month internship where I worked on a C# backend project. The collaboration was a result of successful participation in a student competition.
- **IT klinika d.o.o** Ljubljana, Slovenia
  Software Developer *Jul 2014 - Aug 2015*
  - **Harmonia**: I worked in a small team of students developing a Django project for online booking of beauty and wellness services. The collaboration was a result of successful participation in a student competition.

Projects

- **DeepMind's OpenSpiel Framework**: I'm actively contributing to DeepMind's C++ open-source framework for general reinforcement learning and search/planning in games.
- **doddle-model: Machine Learning in Scala**: I have implemented (with some other contributors) an in-memory machine learning library in Scala that resembles scikit-learn.
- **A PyTorch Implementation of Paragraph Vectors**: I have built a PyTorch implementation of the Distributed Representations of Sentences and Documents paper by Q. V. Le et al.
- **Orange3 Image Analytics Add-on**: I have collaborated on the Orange3 Image Analytics add-on for the Orange3 data mining suite (an open-source software). It provides extensions for importing/creating labeled image data sets and embedding them through a variety of pre-trained deep neural networks.
- **Educational Neural Networks Library**: I have created a pure Python and NumPy implementation of a neural networks library for educational purposes.
- **16th Place Solution for the Intel & MobileODT Cervical Cancer Screening Competition on Kaggle**: Our team ended up 16th out of 848 teams on the private, final leaderboard (top 2 %). The challenge of the competition was to develop an algorithm that accurately identifies a woman's cervix type based on digital images.
- **Winning Solution for the Painter by Numbers Competition on Kaggle**: I ended up in the first position on the private, final leaderboard. The challenge of the competition was to examine pairs of paintings and determine whether they were painted by the same artist.
- **Domain Independent Monte Carlo Tree Search Methods Implementation**: I have built a Java implementation of Monte Carlo Tree Search methods that is self-contained and domain-independent. The project was developed for my Bachelor's thesis.