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Summary

I am an AI reasearcher at «Università di Pisa» in deep learning and NLP.
I also have a Master's Degree in Pure Mathematics. I also have passed some exams of the Physics department about general relativity and field theory.

Education

- o **Master's Degree in Mathematics, Università di Roma «La Sapienza», 2019 – 2021**
  - Thesis: finite dimensional representations of the maximal compact subalgebra of symmetrizable Kac-Moody algebras
  - Vote: 110/110 cum laude

- o **Bachelor's Degree in Mathematics, Università di Roma «La Sapienza», 2016 – 2019**
  - Thesis: differential, symplectic geometry about Atiyah-Guillemin-Sternberg theorem
  - vote: 110/110 cum laude

Certifications

- o **Introduction to Machine Learning, Coursera and Duke University (2021)**
- o **Machine Learning, Stanford University (2021)**
  - Supervised learning (parametric/non-parametric algorithms, support vector machines, kernels, NNs), unsupervised learning (clustering, dimensionality reduction, recommender systems, deep learning), evaluations of a model's performance using bias/variance theory. Implementation in MatLab.
- o **Specialization: Machine Learning, Coursera and Stanford University (2022)**
  - ML models in Python using NumPy, scikit, TensorFlow and Keras on Jupyter. Linear regression, logistic regression, NNs (for multi-class classification), decision trees method, unsupervised learning, recommender systems and deep reinforcement learning model.
  - Certifications in this specialization:
    - Supervised Machine Learning Regression and Classification
    - Advanced Learning Algorithms
    - Unsupervised Learning, Recommenders, Reinforcement Learning
- o **Specialization: Natural Language Processing, Coursera and Stanford University (2022)**
  - Certifications in this specialization:
    - Natural Language Processing with Classification and Vector Spaces
    - Natural Language Processing with Probabilistic Models
    - Natural Language Processing with Sequence Models
    - Natural Language Processing with Attention Models

Work experience

- o **NTT Data (2022)**
  - SOFTWARE DEVELOPER ENGINEER: Microsoft technologies (Azure, ASP.NET), MVC, DateBase (SQL Server), C#, Reactjs
- o **AI Researcher at «Università di Pisa» and Intern at AI Technologies s.r.l. (Present)**
  - I'm studying and building NLP models using pytorch 2.0 and tensorflow 1.x, 2.x /Keras (with Sequential API, subclass API, functional API) frameworks with tensorboard.

Languages

Italian: native language
English: B2 level (written and spoken)
French: basic level

Software

Programming languages: Python 3.10, C, C++, C#, TypeScript, MatLab
Database: SQL Server
Operating Systems: Microsoft, Linux
Libraries: Numpy, Pandas, TensorFlow, Scikit-Learn, Matplotlib, Keras, PyTorch, Tensorboard
Version control platform: GitHub