Curriculum Vitae ai fini della pubblicazione

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Education

Master Degree in Engineering in Computer Science January 2022

Sapienza University of Rome

- Final grade: 110/110 cum laude
- Average exam grade: 29.57/30
- Successfully completed Honours Program of Engineering in Computer Science in Natural Language Processing
- Thesis subject: Natural Language Processing
- Most relevant courses: Algorithm Design, Data Mining, Big Data Computing, Machine Learning, Statistical Learning, Neural Networks, Natural Language Processing, Social Networks and Online Markets

Bachelor Degree in Ingegneria Informatica e Automatica July 2019

Sapienza University of Rome

- Final grade: 110/110 cum laude
- Average exam grade: 29.88/30

Secondary School Diploma July 2016

Liceo Scientifico IISS Bojano

- Final grade: 100/100

Experience

Computer Science Tutor September 2019 - Present

Camplus College *Rome, Italy*

- Provided didactic support to Camplus College students in Computer Science courses

Teacher 2019 - 2021

Camplus College *Rome, Italy*

- Held two Arduino courses, a MATLAB course and a Machine Learning introductory course

Projects

Semantic Parsing | *NLP project* February 2022 – Present

- Ongoing research project that has at the center the task of semantic parsing and its applications in Natural Language Processing.
- Project carried on within the Sapienza NLP group.

Retrieval Augmentation for Autoregressive Definition Modeling | *Master thesis* August 2021 – January 2022

- Use transformer-based models to generate definitions of words in context, exploiting information retrieved from an external knowledge source.
- Python, Pytorch, Pytorch Lightning, Huggingface Transformers

Link Prediction in Disease-Gene Association Networks | *University project* Feb 2021

- Implement link prediction on graphs using Graph Convolutional Networks
- Project for Data Mining exam - Python, Tensorflow, Pandas, Sklearn, Numpy

Improving Collaborative Filtering Through Topic Diversification | *University project* Jul 2020

- Implement a topic diversification mechanism for recommender systems
- Project for Web Information Retrieval exam - Python, Pandas, Sklearn, Numpy

Technical Skills

Languages: Python, MATLAB, Java, Kotlin, C, SQL
Developer Tools: Android Studio, Eclipse, Netbeans, Visual Studio Code, Jupyter Notebooks, Google Colab
Libraries: Numpy, Pandas, Sklearn, Tensorflow, Keras, Pytorch, Pytorch Lightning, Huggingface Transformers