

PERSONAL INFORMATION **Simone Di Gregorio**

WORK EXPERIENCE

August 2022 – September 2022

Data Science Intern

KNIME GmbH, Konstanz, Germany

KNIME GmbH is the German branch of KNIME, the data science software company developing the homonymous open source analytics platform, which enables data manipulation/handling and machine learning applications with directed graphs/workflows built through a graphical interface.

Main responsibilities were:

- Development of a KNIME component for Word2Vec and of a KNIME workflow showing a possible use case for the resulting embeddings.
- Development of a KNIME node (Python based) implementing a similar pipeline, but far more focused on performance exploiting low-level Tensorflow.
- Writing blog articles describing theoretical and practical aspects of the above implementations.
- Collaboration with the internal Python development team in testing and perfecting software extensions for user development.

EDUCATION AND TRAINING

2019–2022

Bachelor's Degree in Management and Computer Science

LUISS Guido Carli University

Mathematical Analysis, Multivariate Calculus, Linear Algebra, Graph Theory, Statistics, Statistical/Machine Learning, Micro/Macroeconomics, Python/R programming, Theory of Algorithms and Relational Database Design/SQL.

Thesis:

Movie box office analysis and inference with time series models and tree-based methods

Grade: 110/110

2022–ongoing

Master's Degree in Data Science

Sapienza Università di Roma

Frequentist and Bayesian Inference, Probability Theory, Convex Optimization for machine learning applications, Statistical Learning, Theory of Algorithms, Deep Learning, Computer Vision, Telecommunications Networks.

Current weighted average: 29.68

Current number of registered exams: 7; 5 cum laude

Current number of registered credits: 57/120

PERSONAL SKILLS

Language Italian (mother tongue) and English.

Language Certification C2 CEFR certificated by C1 Advanced Cambridge Exam in June 2018/Score: 201/210

Computer skills

- **Python and R programming for data science** tasks and projects, specifically for what concerns data manipulation, data visualization and training and performance evaluation of all traditional machine learning models and techniques. For what concerns Python, strong confidence in using scikit-learn and the whole data science stack (NumPy, Pandas, SciPy, etc.), relatively in-depth knowledge of Tensorflow (and of course of Keras) and general knowledge of vanilla PyTorch. For what concerns R, fluency is with both native syntax and tidyverse-based syntax.
- **KNIME proficiency** across all the main levels of certifications (L1, L2, L3), both for local use cases and production, with additional knowledge concerning the software due to employment at KNIME GmbH in Konstanz, Germany for two months.
- General knowledge of SQL and relational database management systems.

Other skills Years of experience in entertainment journalism, having worked for important Italian web magazines, handling reviews, previews and videos/streams related to important releases. Care for writing style, content exposition and content layout stems from this professional experience.