Giampaolo Casolla



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FDUCATION

FEDERICO II UNIVERSITY

MS IN APPLIED MATHEMATICS

Graduated Mar 2019 | Naples, IT Thesis in **Data Science**: "Similarity Metrics

for Graph Mining"

Final mark: 110/110 cum laude

ULB

BUSINESS INTELLIGENCE & BIG DATA ANALYTICS

Jul 2019 | Berlin, DE

Erasmus Mundus European Summer School, eBISS 2019

FEDERICO II UNIVERSITY

Bs in Mathematics

Graduated Oct 2016 | Naples, IT Thesis in **Statistics**: "Models for Binary Choice"

Final mark: 104/110

SKILLS

TECHNICAL SKILLS

Proficient with:

Python • R • NoSQL • Scikit-learn pandas • NumPy • ggplot2 • dplyr TensorFlow • LATEX

Familiar with:

SQL • Linux • C • Matlab • Fortran

SOFT SKILLS

Strong:

Problem Solving • Public Speaking Leadership • Initiative • Motivator

COURSEWORK

Machine Learning with Graphs, Stanford Machine Learning and Applications

Information Retrieval

Stochastic Processes

Stochastic Models and Statistical Methods

Financial Mathematics

Operational Research

Numerical Analysis and Computer

Programming

Numerical Methods for ODE

FUN FACTS

HOBBIES

Lifting • Brain Games • Reading

PROJECTS

KNOWLEDGE GRAPH FOR E-HEALTH DATA | CONFERENCE

Sep 2019 - Feb 2020 | Naples, IT

- Migrate 10 million data from SQL database to KG database.
- Extensive Data Cleaning based on NLP to retrieve 94% of the data.
- Used state-of-the-art Embeddings to apply Clustering and Supervised Learning.
- Presented at International Conference Grakn Cosmos 2020 in London.

EXPLORING UNSUPERVISED LEARNING TECHNIQUES FOR THE INTERNET OF THINGS

Jan 2019 - Aug 2019 | Naples, IT

- Created an efficient way to analyze paths of visitors inside a museum.
- Implemented a *k* selection strategy for Clustering based on an *ensemble* approach through a *voting technique*.
- Published 3 papers on Top journals.

DATA ANALYSIS OF ITALY CRIME INDEX | GITHUB

Jan 2020 | Naples, IT

- Found 3 main groups of cities with completely different kinds of crimes.
- Visualization of the most dangerous and safeties cities.

WORK EXPERIENCE

FEDERICO II UNIVERSITY | DATA SCIENTIST

Apr 2019 - Present | Naples, IT

- Implemented a parallelization technique to find *k* for Clustering that reduced the computation time by 82%.
- Worked on projects with real data e.g. Medical e-Health and IoT museums data.
- Managed 2 Ms students for periods of 2-3 months.

IEEE | REVIEWER

Jun 2019 - Present

- Reviewed more than 10 papers on Data Science topics.
- Selected at IEEE IoT (Impact Factor 9.515) and IEEE TII (Impact Factor 7.377).

AWARDS

2019	International	Selected to partecipate at eBISS Summer School, ULB
2012	23 th /136	National Championship of Mathematical Games, Bocconi
2011	1 st /200	Regional Championship of Mathematical Games, Bocconi

BEST PUBLICATIONS

- [1] G. Casolla, S. Cuomo, V. S. Di Cola, and F. Piccialli. Exploring unsupervised learning techniques for the internet of things. *IEEE Transactions on Industrial Informatics*, pages 1–1, 2019.
- [2] F. Piccialli, G. Casolla, S. Cuomo, F. Giampaolo, and V. Schiano di Cola. Decision making in iot environment through unsupervised learning. *IEEE Intelligent Systems*, pages 1–1, 2019.
- [3] F. Piccialli, S. Cuomo, V. S. d. Cola, and G. Casolla. A machine learning approach for iot cultural data. *Journal of Ambient Intelligence and Humanized Computing*, Sep 2019.