



Alessandro Pannone

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ABOUT ME

Mathematical Optimization Research Engineer at Spindox S.p.A.
Phd Student in Operation Research at Sapienza University of Rome.

Passionate about Optimization techniques applied to Machine Learning, in particular to Neural Architecture Search (NAS)

WORK EXPERIENCE

Mathematical Optimization Research Engineer

Spindox Inc. [03/10/2022 – Current]

City: Rome

Country: Italy

EDUCATION AND TRAINING

Master degree in "Decisional Models applied to Management Engineering"

Sapienza Università di Roma [09/2020 – 21/07/2022]

City: Roma

Country: Italy

Field(s) of study: Management Engineering (Ing.Gestionale)

Final grade: 110 cum Laude

Thesis: Description: Optimization (OR) and Deep Learning Methods for Scaling, Registration and Segmentation of Bridges Point Clouds

Main Exams:

- [Operations Research](#) (Continuous Optimization, combinatorial optimization,...)
- [Advanced Machine Learning](#) (final project: Unsupervised Domain Adaptation for image classification)
- [Statistics](#)
- Plant Management
- Economics for Industrial Systems
- Project Management
- [Service Systems and Simulation](#)
- [Process Management and Mining](#)
- [Machine Learning](#) for Industrial Engineering
- Optimization Methods for Machine learning

Member of Sapienza's [Honours Program](#)

Bachelor's Degree in Management Engineering

Sapienza Università di Roma [09/2017 – 31/10/2020]

City: Roma

Country: Italy

Field(s) of study: Management Engineering (Ing.Gestionale)

Final grade: 110 cum Laude

Thesis: Operation Reserch Model for profit maximization for an imaginary company. Variables are: quantity, suppliers to select, materials, workers, energy cost, trucks number (+type and reallocation), number of plants and pos. Programs used: Cplex and AMPL

Main Exams:

- Calculus 1 and 2
- Linear Algebra
- Probability
- Statistics
- Operation Research (+Combinatorial Optimization +laboratory)
- Economics
- Company Management(+lab)
- Industrial Plants
- Physics

Deep Learning Specialization

Coursera [09/2020 – 09/2020]

Field(s) of study: Machine Learning

Final grade: 100/100

The specialization includes 5 courses:

- Neural Networks and Deep Learning
- Hyperparameter tuning, Regularization and Optimization
- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Sequence Models

Machine Learning (Lecturer: Andrew Ng, Stanford University)

Coursera [09/2020 – 09/2020]

Final grade: 100/100

Link: <http://coursera.org/verify/T5QDVWTJE3DN>

Process Mining: Data science in Action (Eindhoven University of Technology)

Coursera [07/2021 – 07/2021]

Link: coursera.org/verify/X9QYN5UA7SSS

Master SQL for Data Science

LinkedIn [03/2021 – 03/2021]

Link: <https://www.linkedin.com/learning/paths/master-sql-for-data-science>

Unsupervised Machine Learning with Python

Udemy [08/2021 – 08/2021]

Link: www.udemy.com/certificate/UC-4c286b6c-cdef-472e-8ce7-e7b2faf5b852

Fake News Detection with Machine Learning

Coursera [09/2020 – 09/2020]

Link: <http://coursera.org/verify/GWLFUE66VKGD>

Movie Recommendation System using Collaborative Filtering

Coursera [09/2020 – 09/2020]

Link: <http://coursera.org/verify/S2FQJDAGN4HH>

EFSET English Certificate 71/100 (C2 Proficient)
EF Standard English Test (EF SET) [08/2021 – 08/2021]

Field(s) of study: English

Link: www.efset.org/cert/idcbRZ

Diploma di Maturità Scientifica
Liceo Scientifico Primo Levi [06/2017]

City: Roma

Country: Italy

Final grade: 100/100

Sezione di potenziamento matematico/linguistico

Phd
Sapienza University of Rome [01/06/2023 – Current]

City: Rome

Country: Italy

LANGUAGE SKILLS

Mother tongue(s): **Italiano**

Other language(s):

English

LISTENING C1 READING C2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Data Science

Tensorflow / Machine Learning / Deep Learning / Pytorch / Pandas, Numpy, Scikit-learn, Scipy.. libraries

Operation Research

AMPL / ORTools / Cplex / Gurobi

Process Mining

ProM / Disco

Process Management

Bizagi Modeler / Bizagi Studio / BPMN

Simulation

Arena Simulation Software

Programming Languages

Java / C++ / Python / Octave / Rust

DRIVING LICENCE

Driving Licence: B 03/12/2016 – 17/06/2027
