Edoardo D'Amico

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EDUCATION

UNIVERSITY COLLEGE OF DUBLIN (UCD)
PhD | Graph Representation Learning
Jan. 2020 - Now | Dublin, IR
Graph-based recommender systems.

POLITECNICO DI MILANO
MS | Computer Science
Sep. 2017 - Dec. 2019 | Milano, IT
Followed the Artificial Intelligence track.
GPA: 28.75 / 30
Grade: 110 with honors / 110

UNIVERSITÀ DEGLI STUDI DI PERUGIA
BS | Informatic and Electronic Engineering
Sep. 2014 - Jul. 2017 | Perugia, IT
Graduated in 2 years and 7 months with an exceeding number of credits.
CFU: 183 / 180
GPA: 27.06 / 30
Grade: 106 / 110

LINKS

Github:// **damicoedoardo**
LinkedIn:// **damicoedoardo**

COURSEWORK

MASTER
Recommender Systems
Deep learning
Machine learning
Artficial Intelligence
Data mining and text mining
Natural language processing
Computer vision & Image analysis
Soft computing
Autonomus agents systems
Software engineering
Model identification & Data analysis
Data bases 2

SKILLS

PROGRAMMING
• Python
• Java
Familiar:
• C • C++

PUBLICATIONS

1. Edoardo D'Amico, Khalil Muhammad, Elias Tragos, Neil Hurley, Barry Smith, Aonghus Lawlor.
   Item Graph Convolutional Collaborative Filtering for Inductive Recommendations.
   (Accepted) In *European Conference on Information Retrieval* (**ECIR'23**).

2. Edoardo D'Amico, Giovanni Gabbolini, Cesare Bernardis, Paolo Cremonesi.
   Analyzing and improving stability of matrix factorization for recommender systems.
   Journal of Intelligent Information Systems, Jan. 2022, doi:10.1007/s10844-021-00686-1.

3. Edoardo D'Amico, Giovanni Gabbolini, Cesare Bernardis, Paolo Cremonesi.
   On the instability of embeddings for recommender systems: the case of Matrix Factorization.
   *In Proceedings of the 36th ACM/SIGAPP Symposium on Applied Computing (**SAC '21**), March 22–26, 2021, Republic of Korea. ACM, New York, NY, USA, 8 pages.*

4. Edoardo D'Amico, Giovanni Gabbolini, Daniele Montesi, Matteo Moreschini, Federico Parroni, Federico Piccinini, Alberto Rossettini, Alessio Russo Introito, Cesare Bernardis, and Maurizio Ferrari Dacrema.
   Leveraging laziness, Browsing-Pattern Aware Stacked Models for Sequential Accommodation Learning to Rank.
   In *Proceedings of the ACM Recommender Systems Challenge 2019* (**RecSys'19**) , September 16–20, 2019, Copenhagen, Denmark.

MAIN PROJECTS

ACM RECSYS CHALLENGE 2019 ACM challenge | Mar-Jul 2019
Recommender Systems, Python, AWS, Pandas, Learning to rank, Tensorflow
Organized by Trivago for the 13th ACM Conference on Recommender Systems. The goal was to develop a session-based and context-aware recommender system.

- **Final position:** 10 over 585 groups **(top 2%)**.
- Implemented two among four algorithms used in the final model (Tensorflow ranking, LightGBM), automated the search of the optimal parameters.

H&M PERSONALIZED FASHION RECOMMENDATION | Kaggle | Feb-May 2022
Recommender Systems, LightGBM, Tensorflow
Kaggle challenge sponsored from H&M (Link). In this competition, H&M Group ask the development of a product recommendation algorithm based on data from previous transactions, as well as from customer and product meta data.

- **Final Position:** 43 over 2954 teams **(top 2%)**
- Implemented end to end recommender systems pipeline for real-world fashion recommendations (GitHub link).

ACM RECSYS CHALLENGE 2022 ACM challenge | Apr-June 2022
Recommender Systems, Python, Pytorch, Numpy, Pandas, Learnin to rank
Organized by Dressipi for the 16th ACM Conference on Recommender Systems. The goal was to develop a session-based recommender systems for fashion domain recommendations.

- **Final position**: 18 over 303 teams **(top 6%)**.
- Participated as a single person team, implemented end to end multi-stage recommendation pipeline. (GitHub link).