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PERSONAL INFORMATION Luca Dini

PhD Student @ ItaliaNLP LAB, ILC CNR (Pisa)

WORKING EXPERIENCE

November 2022 – On Going — PhD student

Where National Ph.D. in Artificial Intelligence - AI & Society

Project Human in Neural Language Models: investigating the use of data on how humans perceive and process textual information for the development of more interpretable and efficient NLMs.

February 2021 – October 2022 — Research fellow

Where Istituto di Linguistica Computazionale "Antonio Zampolli" - ILC CNR, Pisa

Main tasks
– Development of models for NLP task resolution (e.g.: paragraph segmentation, sentence similarity, sentiment analysis)
– Development of Neural Language Models based on deep neural networks and Transformers architecture
– Development of classifiers and regressors (e.g.: based on SVM architecture)
– Creation of training datasets
– Application of NLP techniques to support publishing industry
– API development and distribution

December 2020 – January 2021 — Junior Developer

Where M.E.T.A. s.r.l.

Main tasks Training of a document classification model, based on SVM

October 2019 – December 2019 — Secondary school teacher

Where Istituto paritario Cavour-Pacinotti, Firenze

Main tasks Teacher in computer science

November 2017 – July 2019 — University tutor

Where Università degli Studi di Firenze, Firenze

Main tasks
– One-to-one lessons for first-year sutents of Bachelor's degree in Computer Science
– One-to-one computer science lessons for students of Bachelor's degree in Mathematics
– Classroom exercises
– Orientation service for future students and participation in various open days

EDUCATION AND FORMATION

July 2020 — Master's degree in Computer Science (Curriculum Data Science)

Where Università degli Studi di Firenze, Firenze

Thesis Data augmentation techniques for content-based image retrieval using CNNs

Supervisor Marco Bertini

Grade 110 cum laude

December 2016 — Bachelor's degree in Computer Science

Where Università degli Studi di Firenze, Firenze

Thesis Progettazione e sviluppo di una libreria Java per il monitoring di segnali

Supervisor Michele Loreti

Grade 110 cum laude

June 2013   ## High school diploma
Where   Liceo scientifico Francesco Redi, Arezzo
Grade   97

PROFESSIONAL SKILLS

Mother tongue   Italian

Other languages

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B1	B1	B1	B1	B1

English   B1   B1   B1   B1   B1

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
Common European Framework of Reference for Languages

Digital Skills
– Programming languages: Python, Java, R, C, CUDA, Matlab
– Machine learning modules: Pytorch, Tensorflow, Keras, FastAI, Transformers, Numpy, Sicpy, Scikit-Learn, Pandas

MEMBER OF RESEARCH LABS

Lab: Italian Natural Language Processing Laboratory (ItaliaNLP Lab), Istituto di Linguistica Computazionale "A. Zampolli" (ILC–CNR), Pisa
Date: from February 2021
References: http://www.italianlp.it/people/luca-dini/

PARTICIPATION IN RESEARCH SCHOOLS AND CONFERENCES

2023   – Lectures on Computational Linguistics 2023, 29-31 May 2023, Università di Pisa.

2022   – Lectures on Computational Linguistics 2022, 8-10 June 2022, Università degli Studi di Napoli L'Orientale.
– Eighth Italian Conference on Computational Linguistics (Clic-it 2021), 29 June - 1 July 2022, Università degli studi di Milano-Bicocca.

2021   – Lectures on Computational Linguistics 2021, 16-18 June 2021, Università degli Studi di Roma Tor Vergata.

PUBLICATIONS

1. Papa F., Dini L., Brunato D., Dell'Orletta F. (2023). Unraveling Text Coherence from the Human Perspective: a Novel Dataset for Italian. In: *Proceedings of the Ninth Italian Conference on Computational Linguistics (CLiC-it 2023)*.

2. Brunato D., Dell'Orletta F., Dini I., Ravelli A. A. (2023). Coherent or not? stressing a neural language model for discourse coherence in multiple languages. In: *Findings of the Association for Computational Linguistics: ACL 2023, Association for Computational Linguistics* (pp. 10690–10700).

3. Brunato D., Colla D., Dell'Orletta F., Dini I., Radicioni D. P., Ravelli A. A. (2023). DisCoTex at EVALITA 2023: Overview of the Assessing DIScourse COherence in Italian TEXts task. In: *M. Lai, S. Menini, M. Polignano, V. Russo, R. Sprugnoli, G. Venturi (Eds.), Proceedings of the Eighth Evaluation Campaign of Natural Language Processing and Speech Tools for Italian. Final Workshop* (EVALITA 2023).

4. Casell, T., Dini I., Dell'Orletta F. (2022). How About Time? Probing a Multilingual Language Model for Temporal Relations. In *Proceedings of the 29th International Conference on Computational Linguistics* (pp. 3197-3209). **Outstanding paper @ COLING 2022**.

5. Dini I., Dell'Orletta F., Ferri F., Gismondi B., Montemagni S. (2021). Trattamento automatico della lingua a supporto dell'editoria: primi esperimenti con il Devoto-Oli Junior. In *Proceedings of the Eighth Italian Conference on Computational Linguistics (CLiC-it 2021)*.