ENRICO BENEDETTI

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enricobenedetti.github.io

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- EnricoBenedetti

WORK EXPERIENCE

National Institute of Informatics Researcher

- **Sep.** 2023 Feb. 2024
- Tokyo, Japan
- NLP Research internship during which I wrote a paper (now under review) and prepared my Master thesis.
- Designed and evaluated retrieval and generative systems for proposing sentences suitable for L2 learners.

EDUCATION

University of Bologna

M.Sc. in Artificial Intelligence

■ Sep. 2021 - March 2024 Bologna, Italy

Thesis title: "Example Sentence Suggestion for Learners of Japanese as a Second Language Using Pre-Trained Language Models"

CGPA: 28.8/30.

Final grade: 110/110 with honors

University of Bologna

B.Sc. in Computer Engineering

2018 - 2021

Bologna, Italy

Thesis title: "Cryptographic CTF challenges: theory and

techniques"

Final mark: 107/110

PROJECTS

AlCamp Cyprus - Text-to-Image

- June 2023 C EnricoBenedetti/AICAMP-text2image
- Research survey for the "MAI4CAREU" project, where we presented and discussed an overview of the main sota approaches for the Text-to-Image task (at the time).

NLP CV Midjourney **MTFX**

Human Value Detection with a Hierarchical Deep Learning approach

- February 2023 C EnricoBenedetti/HumanValueDetection
- Team project in NLP on SemEval 2023 Task 4. ValueEval: Identification of Human Values behind Arguments.

NLP TF Python keras ₽T_EX Transformers

GarfieldRetrieve: a Deep Metric Learning approach for Retrieving comic strips

Feb. 2023 C EnricoBenedetti/GarfieldRetrieve

- Curated a dataset of Garfield transcribed comic strips, to perform semantic retrieval.
- Built a retrieval system based on Deep Metric Learning using Sentence Transformers, comparing it to Latent Semantic Indexing.

NLP Python Transformers pandas pytorch

Part-of-speech Tagging with RNNs

- Nov. 2022 C EnricoBenedetti/pos-tagging
- · As a team, we implemented POS tagging using different architectures based on Recurrent Neural Networks.
- We wrote a paper-style report containing detailed analysis of results and performance.

ML Python pytorch

1D Barcode Quality Verification

- **■** September 2022 **○** EnricoBenedetti/1DBarcodeQualityVerifier
- Project for the Image Processing & Computer vision course. A Jupyter notebook and Python script for barcode localization and quality assessment.
- It can produce an analysis according to the IEEE guidelines for barcode quality for multiple images at once.

CV Python OpenCV pandas

Capacitated Vehicle Routing Problem

- Team project for the Combinatorial Optimization course.
- We implemented and documented solving strategies and models for CVRP using Constraint Programming, boolean SAT solving, SAT Modulo Theories and Mixed Integer Programming frameworks.

Minizinc Python MIP

HUMAN LANGUAGES

Italian: Native

English: Advanced (C1 - IELTS Academic, overall score:

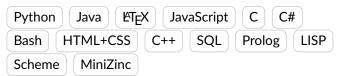
8.0/9.0)

Japanese: Beginner

SKILLS

Some things I have worked with directly. Ordered by approximate proficiency/relevance.

Programming Languages



Frameworks, Engines, Libs, etc.



INTERESTS

I want to learn interesting things and meet people I can look up to. That way, I hope to be able to help others as well. Other than that, my biggest passions are gaming and reading. I also enjoy visual arts (especially animation), music, physical training and internet humor.