Giulio Cusenza

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Education

Oct 2021 - present
- **Bachelor's in Computational Linguistics @ University of Tübingen**
  Attending the 6th semester of the Computational Linguistics bachelor's degree at the University of Tübingen with an average grade of 1,25 (A grade).

Jun 2021
- **High school degree with A grade**
  Graduated with 100/100 at the classical high school "Liceo Classico Umberto I" (key subjects: Latin, Ancient Greek, Philosophy) in Palermo, Italy.

Experience

Jan 2024 - May 2024
- **Intern in Data & Technology @ MHP – A Porsche Company**
  Automating company processes by applying Machine Learning and NLP to Robotic Process Automation.

Oct 2022 - Dec 2023
- **Programming teaching assistant @ University of Tübingen**
  Tutored over 70 students in the courses "Data structures and algorithms for computational linguistics" I, II (Java) and III (python).

Apr 2023 - Sep 2023
- **Research assistant @ University of Tübingen**
  Worked on a project on the automatic identification of language borrowing and contact through NLP and bioinformatic methods (DFG Center for Advanced Studies "Words, Bones, Genes, Tools").

Skills

IT:
- Proficient in **python** and **Java**.
- Machine learning projects with **pytorch**, **spacy**, **sklearn**, **pandas**, **nltk**.
- Experience with **regex**, **context-free** grammars, and **finite state automata**.
- Experience with web development: **HTML**, **CSS**, **JS**, Firebase (example).
- Familiarity with **bash**, **R**, **SQL**, **Prolog**.
- Version control: **Git**.
- Good knowledge of tools for digital media: **Microsoft Office**, **LaTeX**, **DaVinci Resolve** (video editing), **Blender** (3D modeling), **GIMP** (image editing).

Languages:
- Spoken: **Italian** (native), **English** (C2), **French** (C1), **Russian** (B2), **German** (B2).
- Natively understood: **Sicilian**, **Arbëresh**.
- Written: **Latin, Ancient Greek**.
- Basic: Spanish, Korean.

Other: philosophy   literary analysis

Traits: curious   creative   detail-obsessed   committed   communicative

Publications

- Giulio Cusenza and Çağrı Çöltekin. 2024. [NLP for Arbëresh: How an Endangered Language Learns to Write in the 21st Century](). In *Proceedings of the 3rd Annual Meeting of the Special Interest Group on Under-resourced Languages @ LREC-COLING 2024*, pages 252–256, Torino, Italia. ELRA and ICCL.

Projects

Arbor	*Website with self-developed NLP tools (spellchecking, conjugation...) for the extremely low-resourced Arbëresh language spoken in Southern Italy.*	[link]()
Question tagger model	*Training of a question labelling model based on Hugging Face Transformers.*	[link]()
FST spell checker	*Probabilistic spell checker built on weighted finite state transducers (python implementation).*	[link]()
Kneser-Ney bigram model	*Python program to train a word-bigram model with Kneser-Ney smoothing for next-word prediction and sentence generation.*	[link]()

Awards

Deutschlandstipendium (scholarship)	*"The Deutschlandstipendium supports talented and high-performing students. In addition to first-class grades, social commitment and personal achievements are also considered for the award."*	[link]()