

Simone Teglia

EDUCATION

- Master's Degree in Engineering in computer science (English taught)** 09/2022 – 10/2024
Sapienza Università di Roma Rome, Italy
Final grade: 110 cum laude
Defended a thesis titled "How much do pre-trained language models know about word senses?" that explored the ability of 5 different encoder models to position polysemous words in their latent space before any kind of fine-tuning phase.
- Bachelor's Degree in Computer Engineering (Italian taught)** 09/2018 – 03/2022
Sapienza Università di Roma Rome, Italy

PROFESSIONAL EXPERIENCE

- Website Area Coordinator** 12/2022 – present
TEDxSapienzaU Rome, Italy
Developed from scratch the official website of TEDxSapienzaU, leveraging React.js for the front-end, and Node.js for the back-end, increasing the "time-on-site" by 100%. Now serving as website area coordinator, I oversee a small team of developers to maintain and continuously improve the site.
- Research Fellowship** 04/2024 – 09/2024
Sapienza Università di Roma Rome, Italy
Study of the intrinsic disambiguation capacity of pre-trained language models
- NLP Researcher** 10/2023 – 12/2023
Babelscape  Rome, Italy
Development of a language recognition system capable of accurately detecting the language of an input sentence, covering 25 low-resource languages and all 21 European languages, with a 99.9% accuracy rate.

PROJECTS

- Sequence translation for text compression** 
Deep Learning Project
This project explores the possibility of the application of neural network models to a sequence to sequence translation task with the aim of text compression. Specifically it investigates the feasibility of using deep learning techniques to emulate traditional zipping software, focusing on the Deflate algorithm for its balance between simplicity and efficiency.
- BiLSTM Event-Detector** 
NLP Project
Word-level tagger that assign a tag to each word of the sentence given in input, following the B-I-O standard. The model understand with a precision of 94.9% if a word is referring to events of *change*, *scenario*, *action*, *possession* or *sentiment*.
- Visualization tool of students careers' paths** 
Visual Analytics Project
Interactive dashboard that allows professors to easily visualize exam's choices of students of a given course. The department of Engineering of Sapienza University of Rome is currently cosidering to actively use this dashboard to understand better the behaviour of bachelor students.

LANGUAGES

Italian



English

