



UMBERTO SELVA

Linguistics PhD, NLP / AI Engineer
Python, Deep Learning, Data Science



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github.com/umbertoselva

PROJECTS

github.com/umbertoselva

My portfolio of NLP, ML and Data Science projects:

- A Museum chatbot with GPT-3.5 and LangChain
- A GPT-3 app that removes bias from news articles
- Fine-tuning BERT with TensorFlow for NER-based sentiment analysis on a real world dataset
- Exploratory data analysis with custom utils

sanskritmeterscan.net

A digital humanities Python Flask web app that automates the metrical scansion of Sanskrit poetry

EXPERIENCE

AI Engineer

Pharmazie.com - 2023-Today

NLP / AI Freelance Consultant

森NLP - 2023-Today

Post-doctoral Researcher, and NLP specialist

Freelance - 2020-2022

Post-doctoral Researcher

IIAS - International Institute for Asian Studies
Leiden, Netherlands - 2019-2020

Doctoral Researcher and Lecturer

LUCL - Leiden University Centre for Linguistics
Leiden, Netherlands - 2016-2019

Research Assistant

LUCL - Leiden University Centre for Linguistics
Leiden, Netherlands - 2015

EDUCATION

PhD Linguistics

Leiden University, Netherlands - 2019

Research MA Linguistics

Leiden University, Netherlands - 2015

BA Classics / Linguistics

Università degli Studi di Torino, Italy - 2011

CERTIFICATIONS

Natural Language Processing Specialization

Deeplearning.ai - Jan 2022 (four-month program)

- Courses: (1) NLP with Attention Models, (2) Sequence Models, (3) Probabilistic Models, (4) Classification and Vector Spaces

NLP with Transformers in Python

Udemy - Jul 2022

Machine Learning

Stanford Online - Aug 2020

Deep Learning Specialization

Deeplearning.ai - Nov 2022

- Courses: (1) Neural Networks and Deep Learning, (2) Hyperparameter Tuning, Regularization and Optimization, (3) Structuring Machine Learning Projects

Statistics with Python Specialization

IBM - Oct 2022

Practical Data Science on the AWS Cloud

AWS & Deeplearning.ai - Dec 2022

- Courses: Build, Train and Deploy ML pipelines using BERT with Amazon SageMaker

SKILLS

- Python, SQL (MySQL), Prompt Engineering
- NLP (spaCy, NLTK, Huggingface, OpenAI, LangChain; RNN, LSTM, Transformers, BERT, GPT, LLMs, etc.)
- ML / DL (Scikit-learn, Tensorflow, Keras)
- MLOps (AWS SageMaker, Docker)
- Data Science (Pandas, NumPy, Matplotlib, Seaborn)
- Web App/API Dev (Flask, FastAPI, Gradio, Streamlit)
- Other (git, Linux, bash/zsh, Jupyter Notebook)

LANGUAGES

Native-level proficiency: English, Italian. Grammatical knowledge of various classical / ancient languages.