UMBERTO SELVA

Linguistics PhD, NLP Specialist
Python, Deep Learning, Data Science

✉ u.o.selva@gmail.com   💬 +39 333 5218014

🌐 linkedin.com/in/umberto-selva

🌐 leidenuni.academia.edu/UmbertoSelva

🌐 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

Post-doctoral Researcher (Linguistics) and NLP Engineer

Freelance - 2020–today

Post-doctoral Researcher

IIAS - International Institue 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

● LANGUAGES

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

● 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 for Data Science with Python

IBM - Oct 2022

Statistics with Python Specialization

University of Michigan - Currently enrolled

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 (MLFlow, AWS SageMaker, Docker)**
- **Data Science (Pandas, NumPy, Matplotlib, Seaborn)**
- **Web App Dev (Flask, FastAPI, Gradio, Streamlit)**
- **Other (git, Linux, bash/zsh, Jupyter Notebook)**