Sebastian Lachner

Computer Linguist | NLP | Data Analysis | Linguistics

Computational linguist with a background in NLP and Machine Learning, bringing experience in labeling, corpus analysis, linguistic data processing, text annotation, model optimization, and interested in LLM fine–tuning.

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Experience

Sales Advisor — *Action Geretsried*

October 2023 - April 2025

Education

Bachelor in Computer Linguistics — *LMU München*

October 2020 - March 2024

Computer Linguistics with a minor in S.L.K. (Language, Literature and Culture) - Bachelor of Science

Projects

Dialect Detection on Social Media — *Bachelor Thesis*

March 2023 - June 2023

In the context of my bachelor's thesis, I worked on the fine-tuning of a language model for classifying texts from Spanish-language social media to determine their dialect. For this purpose, a dataset was created by scraping Twitter texts, which were then preprocessed for training. The base model was fine-tuned using FastText while the better model used a Spanish version of the BERT model. The trained model was used to analyze linguistic features in Spanish-language social media. The best evaluation results achieved an F1-score of approximately 0.82.

Link: https://github.com/Lachners/Dialect_Detection

Data Analysis: Tourism in Argentina — *Personal Project*

October 2024

Conducted a personal data analysis project focusing on inbound and outbound tourism trends using the SINTA dataset (2016-2024). This project was effectuated using Python libraries for Data Handling and Analysis (Pandas, Matplotlib, Seaborn).

Link: https://github.com/Lachners/DataAnalysis_TourismArg/blob/main/analysis.ipynb

Skills

Natural Language Processing (NLP) & Machine Learning

Data Preprocessing & Analysis

Computational Linguistics & Corpus Analysis

Web Development

Graphic Design

Communication, Adaptability, TeamWork and Collaboration

Project Management and Attention to Detail

Tools & Frameworks

Python - Pandas, NumPy, Matplotlib, Seaborn

NLP - NLTK, spaCy, Hugging Face Transformers

Machine Learning - Scikit-learn, TensorFlow, PyTorch

Data Labeling - Label Studio

Version Control - Github, Git

Office, Design and Productivity - Microsoft Office Suite (Word, Excel, PowerPoint), Photoshop

Web Development - HTML, CSS

Certifications

Elements of AI: Building AI —*University of Helsinki*

October 2024

Link: https://certificates.mooc.fi/validate/lvhokws9qyq

Web Development — *Hilet Mar del Plata*

December 2017
HTML, CSS, PHP & Databases

Advanced Photoshop —*Münchner Volkshochschule*

January 2017

PC Repair — *Hilet Mar del Plata*

October 2015

Others

Student Exchange in India —*Rotary Youth Exchange Program*

January 2018 - February 2019
Student Exchange Year in the Indian city of Surat, Gujarat

Languages

German & Spanish - Native.

English - Fluent.

Russian, Portuguese & Italian - A2

Hindi & Gujarati - Basic Use.