

Sentiment Analysis of Portuguese Political Manifestos



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Code is available under the MIT License (assumed standard open-source practice) via the GitHub repository.

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The code can be accessed and downloaded from its GitHub repository: <https://github.com/erikbranmarino/Sentiment-Analysis-PT-Manifestos-2011-2015-2019>

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Summary

This repository contains the computational scripts used to conduct a mixed-method analysis of Portuguese political manifestos from 2011, 2015, and 2019, focusing on immigration discourse. The tools employ Natural Language Processing (NLP) techniques to snowball sample migration-related terms, extract relevant sentences, and apply a Multilingual BERT model to calculate sentiment scores, revealing the evolution of political rhetoric regarding migration.

Key Features

- Semantic Term Extraction: Tools utilizing Word2Vec models to identify migration-related semantic fields.
- Automated Sentence Parsing: Regular expression-based scripts to isolate relevant discourse from raw text.
- Standardized Output Pipeline: Methods to normalize BERT probabilities into structured, quantifiable sentiment scores.

What We Offer

- Complete Processing Pipeline: Scripts for data integration, corpus extraction, and splitting manifestos.
- Sentiment Analysis Scripts: Implementations for applying Multilingual BERT and LLMs to political texts.
- Visualization Tools: Scripts for counting sentiment sentences and generating graphical plots and tables.

Collaboration Objectives

- Political Scientists: Provide computational methods for analyzing longitudinal changes in party rhetoric.
- Digital Humanities Researchers: Offer reusable scripts for text mining and sentiment analysis of non-normalized historical or political documents.