WIR VERGEBEN EINE

MASTERARBEIT / MASTER THESIS

ENERGIEVERBUNDTECHNIK

In the field of Energy Economics

Work title:

"Impact of Public Sentiments on forecasting Electricity prices in Austria"

Background:

This master's thesis examine the relationship between public sentiments and electricity market of Austria. There are many factors that influence this, including geopolitics, energy policy, technological innovation, and climate change. This research work will investigate that how sentiments extracted from news articles, social media, and policy documents and their impact on the electricity prices. Using Natural Language Processing (NLP) and econometric modelling techniques, the research work will combine textual information with quantitative market data and will be used for the forecasting. Additionally, it investigate the most important keywords that can effect the prices like emission of CO2, Taxes etc. The econometric and machine learning models like (e.g., ARDL, VAR, GARCH,LSTM or Bi-LSTM) will be developed and used for forecasting.

Outline of the content:

- Literature review to improve the academic background
- Studying data required for Sentiment Analysis and Electricity Market forecasting
- Investigating the relationship between the Sentiments on the Electricity Market by using data-driven strategies
- Implementation of different models and find the most appropriate one for this reseach

Requirements:

- Background in Electrical Engineering, Energy Systems, Data Science, Economics, or related field.
- Programming skill in Python and data analysis skills
- Interest in Energy Economic and Time series Forecasting
- Motivation to Solve Complex Problems

Are you interested? contact me

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