

Script Shadow

Aim: Our project aims to process Meta Encoding over Emotion based data to evaluate between 6 different emotions using the LAF/GrAF Annotation Standards. We will further access information or insights from our data through SQL Queries using the PostgreSQL GUI tool.

This document gives information on the purpose of each script or query file.

- **Random_sentence_pick.py** - In this file, we extract 472 sentences from 'data.csv' using random function and further write them into 'new_data.csv'.
- **Data_cleaning.py** - In this file, we preprocess the data by adding Column Names to Rows. We clean the 'tweet' column by removing Numbers, Punctuations, Special Characters, Emojis or Emoticons and Stop Words. Then we generate the lemmas of the tweet column and transform it into 'primary_data.csv, annotation_data.csv and segmentation.csv'.
- **Data_transform_csv_txt.py** - In this file, we change the file type to text file from csv file. We apply these changes on 'primary_data.csv, annotation_data.csv and segmentation.csv'.
- **Resource-header.xml** - This file gives the meta and the information of the source from where the file has originated. It provides not only meta information of the data but explains the project description as well.
- **Document-header.xml** - This file gives the information primary data and annotation file.
- **Tweet-emotions.xml** - This file is the exact standard of the LAF/GrAF to implement it, we need to assign values to various tags. We cover 472 data points and implement XML-serialization using this file.
- **Segmentation.xml** - This file contains all the information or values of the Segmented data called regions and anchors.
- **Several data files** have been used by previous 2 xml-scripts.
- **Connect_to_db_postgres.py** - This file shows how the database connection is established using Postgresql and ElementTree and how values into the table are inserted to access the information.
- **Query Screenshots** - These screenshots are taken while performing different types of queries over pgAdmin, ie, Postgresql GUI.

We hope this file drove you through the Project.

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