Social Data mining, BDAT1007 Assignment1: Sentiment Analysis

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**TOPIC: Russian war**

Step1:

Csv file Dataset has been downloaded from Kaggle.

Read csv operator has been used for reading the dataset.

The path to the file has been set to read the file from our local.

Step2:

* When we have nominal variables in your dataset and want to include them in a text-based analysis or model, we may need to convert them into a format suitable for text processing. This often involves encoding or transforming the nominal values into a numerical or text representation. In this case we use “Nominal to Text “operator.

Step3

**Select Attribute operator:**

* You can use this operator to choose specific attributes that you want to include in your analysis or modeling process. This is particularly useful when dealing with large datasets containing numerous attributes, and you want to focus on a subset of them.

Step4:

Replace operator

* Replace (Replace http tweets from the expression and replace that with as: https?://[-a-zA-Z0-9+&@#/%?=~\_|!:,.;]\*[-a-zA-Z0-9+&@#/%=~\_|]

Step5:

* Replace again. (To get rid of RT\_Type) in the parameter replace with : RT\s\*@[^:]\*:\s\*[A-Za-z ]+

Step6:

Extract sentiment operator

* sentiment analysis involves determining the sentiment or emotional tone expressed in a piece of text. It is commonly used to analyze opinions, reviews, social media posts, and other text data.

Step7:

Generate Attributes Operator

* general operator used for creating new attributes based on formulas or expressions. Here we have used: if(Score > 0, "Positive", if (Score < 0 , "negative" , if (Score == 0, "neutral",""))) to generate new attribute and we named it sentiment.

Step8:

Write csv Operator.

* is used to export data from a RapidMiner process to a CSV (Comma-Separated Values) file. This operator is useful when you want to save the results of your analysis or preprocessing steps to a file that can be easily shared or imported into other tools.

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Description automatically generated

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