A35/9 nment A4, 4140) Title: Twitter data onalysis. problem startement: wo use pointer data for sentiment analysis. The dataset is some in size & has Box+ tweets Identity the tweets that are hate tweets. + Objective: To classify tweets as hate hweets

out come: Identifying & semoving hate tweets from totter. - 51w & HI w requirements: Python 3, jupyter enisonment

Theory - Natural language processing is a subfield of linguistics computer science & artificial intelligence concerned with interactions blu computers l'human language in particular how to program computers to process & analyze large amounts of natural larguage data. - Stop-wordy are words that are filtered out before or after the natural language date are preprocessed. - 51 emming: for grammatical seasons, text Con use different forms of a word. Thex

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| | words with similar meanings |
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| | gterming reduces inflectional torms & |
| | sometimes derivationally linked toms of |
| | stemming reduces inflectional forms by sometimes derivationally linked torms of a word d with similar meanings (common |
| | pase for. |
| | when applied to a document the result |
| | is like ORIGINAL. the boy's cars are |
| | different colors STEMMED the boy con |
| The state of the s | be differ colon |
| + | Feature selection is the process of |
| | selecting a subset of their terms ocurring |
| | in the trainingsel. |
| - | This reakes the classifier more efficient |
| | as well as more accusate because it |
| | eliminates noige. |
| 37 . | vectorization is the process of conunting |
| | the text data into a machine readable from |
| | - TF-IDF Vectors are related to one-hot |
| | encoding but instead of just featuring |
| | a county they teature nummical some catalogs |
| 100 | where words croent just present or not |
| | prosent pasted they are represented by |
| | They a team face and and by all all |
| A hoya | their inverse doc frequency |
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