NLP For Disaster Tweets Analysis

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Project Overview



Preprocessing

Tokenization, Lemmatization, Stopword Removal



Model Development

SVM and BERT



Optimization

Reduce loop, cython, multiprocessing

Preprocessing

Duplicates

Lowercase

Tokenize

tweets into a

list of words

- Emoji
- **Punctuations**
- Stopwords

Lemmatize

- **Duplicates** Tweets with Tokenize
- contradictory labels

- Removals
- Digits

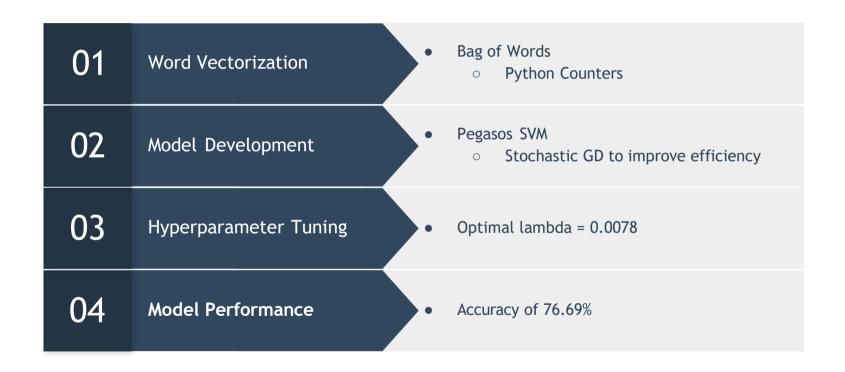
- Websites
- hashtag and mention

to its root lemma

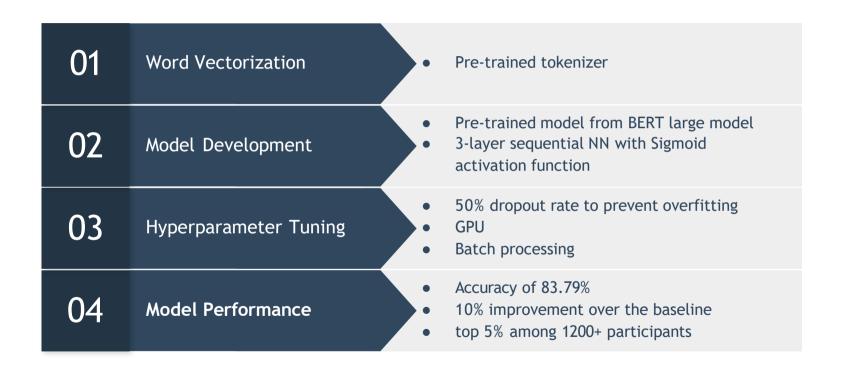
convert words

• eg. "walking" will be converted to "walk"

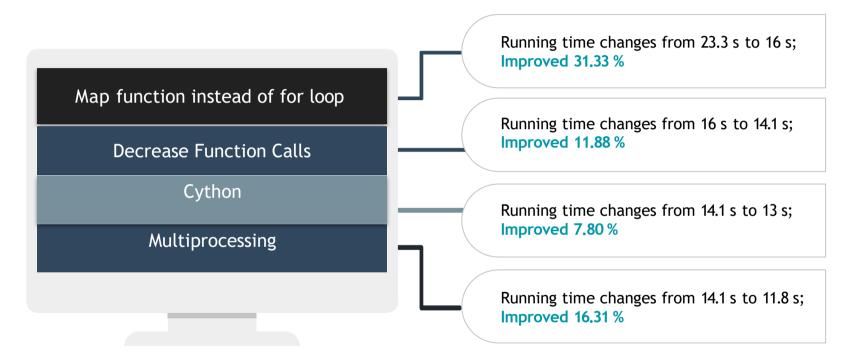
SVM



BERT

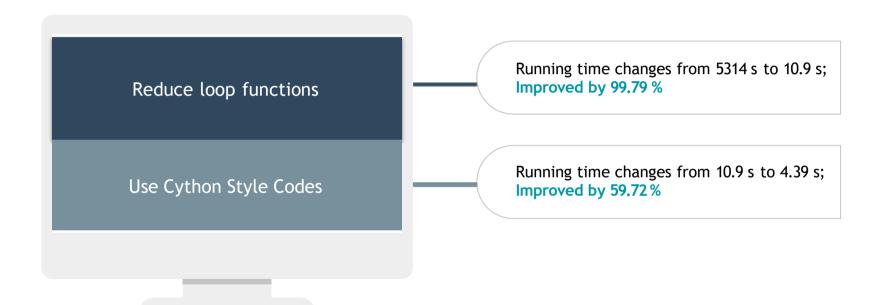


Optimization of Preprocessing



Overall, running time has improved 49.36 %

Optimization of SVM



Overall, SVM running time has improved 99.91%



Thank you!