

# Learning Sentiment-Specific Word Embedding for Twitter Sentiment Classification

Team-10 ---Project -3

## Abstract :

Our Project main goal is to learn and implement **Sentiment-Specific word embedding** and test on twitter dataset ,try to do experiments to improve the accuracy.

## Implementation:

Implementation is in two phases.First phase is to implement the SSWE.The output of first phase is vectors for each word with Syntax Score and Semantic Score. In second phase,we train the model by SVM and above vectors ,predict the semantics for test data.

## Experiments:

while implementing neural networks for syntax and semantics. we can do by having both nn same lookup-table and train the model we get the vectors for each words combinely.

But we train the nn's separately for both language and semantics ,we endup with both sets of vectors. For traning model in SVM, we create a weighted vector form both.

In weighted vector, the weight for semantic vector is more and we can vary to get the accuracy better.

## Accuracy:

For weighted method depending on the weight it varying.

For small portion of dataset from whole tweets the accuracy is about 75-80%.

For weighted method also around same 70-80%.

