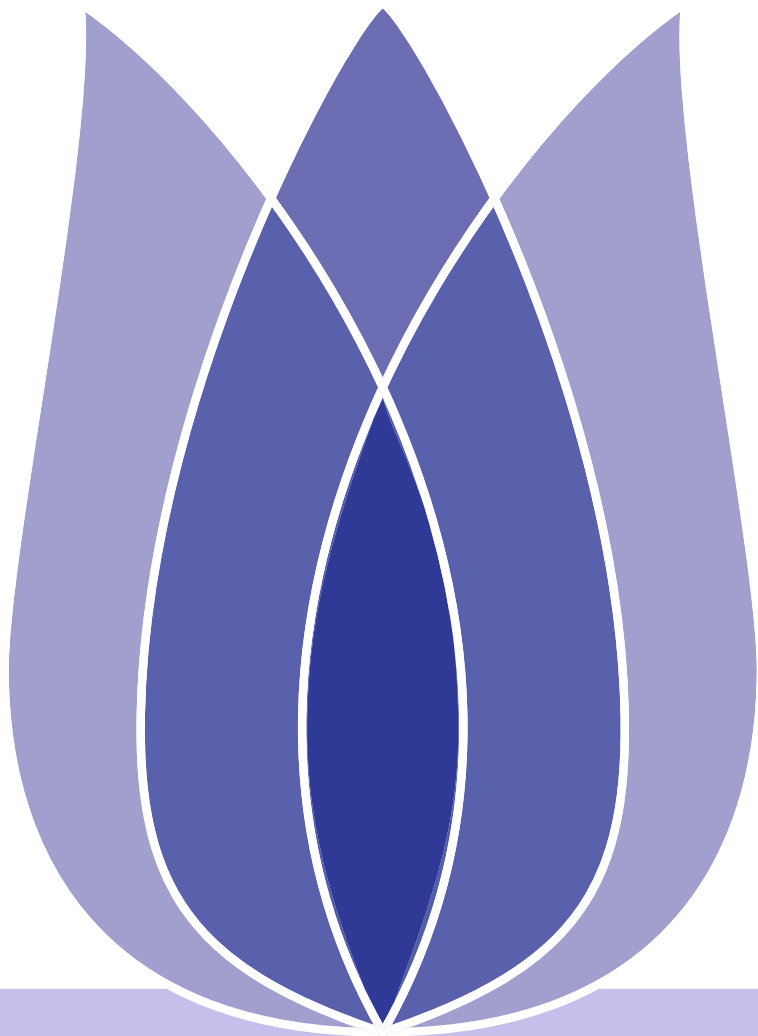




# FLIP01 Interim Assessment

Cong Ma

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# Problem Definition



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Defn

With all of the tweets circulating every second it is hard to tell whether the sentiment behind a specific tweet will impact a company, or a person’s, brand for being viral (positive), or devastate profit because it strikes a negative tone. Capturing sentiment in language is important in these times where decisions and reactions are created and updated in seconds. But, which words actually lead to the sentiment description? In this competition you will need to pick out the part of the tweet (word or phrase) that reflects the sentiment.

In this competition we’ve extracted support phrases from Figure Eight’s Data for Everyone platform. The dataset is titled Sentiment Analysis: Emotion in Text tweets with existing sentiment labels, used here under creative commons attribution 4.0. international licence. Your objective in this competition is to construct a model that can do the same - look at the labeled sentiment for a given tweet and figure out what word or phrase best supports it.



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# Overall Research Ideas



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- Step One - Download and Check the data ; Data process
- Step Two - Constructing emotion dictionary
- Step Three - Build the model and select the optimal parameters
- Step Three - Visualization parameters and process the test data



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# Download and Check the data ; Data process





# Check the data

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- First,let’s check the data.

	textID	text	\
0	cb774db0d1	I`d have responded, if I were going	
1	549e992a42	Sooo SAD I will miss you here in San Diego!!!	
2	088c60f138	my boss is bullying me...	
3	9642c003ef	what interview! leave me alone	
4	358bd9e861	Sons of ****, why couldn`t they put them on t...	

	selected_text	sentiment
0	I`d have responded, if I were going	neutral
1	Sooo SAD	negative
2	bullying me	negative
3	leave me alone	negative
4	Sons of ****,	negative

- We will extract the eigenvalues from these texts.



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# Constructing emotion dictionary



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- We need to count the frequency of each word.
- Based on this, an emotional dictionary is constructed.





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{ 'the': 1, 'and': 2, 'a': 3, 'of': 4, 'to': 5, 'is': 6, 'in': 7, 'it': 8, 'i': 9, 'this': 10, 'that': 11, 'was': 12, 'as': 13, 'for': 14, 'with': 15, 'movie': 16, 'but': 17, 'film': 18, 'on': 19, 'not': 20, 'you': 21, 'are': 22, 'his': 23, 'have': 24, 'be': 25, 'he': 26, 'on e': 27, 'all': 28, 'at': 29, 'by': 30, 'an': 31, 'they': 32, 'who': 33, 'so': 34, 'from': 35, 'like': 36, 'her': 37, 'or': 38, 'just': 39, 'about': 40, "it's": 41, 'out': 42, 'has': 43, 'if': 44, 'some': 45, 'there': 46, 'what': 47, 'good': 48, 'more': 49, 'when': 50, 'very': 51, 'up': 52, 'no': 53, 'time': 54, 'she': 55, 'even': 56, 'my': 57, 'would': 58, 'which': 59, 'only': 60, 'story': 61, 'really': 62, 'se e': 63, 'their': 64, 'had': 65, 'can': 66, 'were': 67, 'me': 68, 'well': 69, 'than': 70, 'we': 71, 'much': 72, 'been': 73, 'get': 74, 'ba d': 75, 'will': 76, 'also': 77, 'do': 78, 'into': 79, 'people': 80, 'other': 81, 'first': 82, 'because': 83, 'great': 84, 'how': 85, 'hi m': 86, 'most': 87, "don't": 88, 'made': 89, 'its': 90, 'then': 91, 'way': 92, 'make': 93, 'them': 94, 'too': 95, 'could': 96, 'any': 97, 'movies': 98, 'after': 99, 'think': 100, 'characters': 101, 'watch': 102, 'two': 103, 'films': 104, 'character': 105, 'seen': 106, 'many': 107, 'being': 108, 'life': 109, 'plot': 110, 'never': 111, 'acting': 112, 'little': 113, 'best': 114, 'love': 115, 'over': 116, 'where': 1 17, 'did': 118, 'show': 119, 'know': 120, 'off': 121, 'ever': 122, 'does': 123, 'better': 124, 'your': 125, 'end': 126, 'still': 127, 'ma n': 128, 'here': 129, 'these': 130, 'say': 131, 'scene': 132, 'while': 133, 'why': 134, 'scenes': 135, 'go': 136, 'such': 137, 'somethin g': 138, 'through': 139, 'should': 140, 'back': 141, "i'm": 142, 'real': 143, 'those': 144, 'watching': 145, 'now': 146, 'though': 147, "d oesn't": 148, 'years': 149, 'old': 150, 'thing': 151, 'actors': 152, 'work': 153, 'before': 154, 'another': 155, "didn't": 156, 'new': 15 7, 'funny': 158, 'nothing': 159, '10': 160, 'actually': 161, 'makes': 162, 'director': 163, 'look': 164, 'find': 165, 'going': 166, 'few': 167, 'same': 168, 'part': 169, 'again': 170, 'every': 171, 'lot': 172, 'cast': 173, 'us': 174, 'quite': 175, 'down': 176, 'want': 177, 'wo rld': 178, 'things': 179, 'pretty': 180, 'young': 181, 'seems': 182, 'around': 183, 'got': 184, 'horror': 185, 'however': 186, "can't": 18 7, 'fact': 188, 'take': 189, 'big': 190, 'enough': 191, 'long': 192, 'thought': 193, "that's": 194, 'both': 195, 'between': 196, 'series': 197, 'give': 198, 'may': 199, 'original': 200, 'own': 201, 'action': 202, "i've": 203, 'right': 204, 'without': 205, 'always': 206, 'time s': 207, 'comedy': 208, 'point': 209, 'gets': 210, 'must': 211, 'come': 212, 'role': 213, "isn't": 214, 'saw': 215, 'almost': 216, 'intere

- The initial construction of emotion dictionary has been completed.



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# Conclusion



# Conclusion

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- During this past few weeks , I’ve learned pattern recognition and Matrix\_Analysis from the Flip01 videos. Write some simple spider program.// In addition , I also learned some algorithms of machine learning,such as CNN , MLP , Alexnet , SVM.
- In the coming month I would like to learn the notebook , accomplish the Kaggle competition title. And keep learning Matrix\_Analysis and machine learning .







# Thanks For Your Listening

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