Syntactic Sugar





Jargon explained:

Jargon is an Al-driven social listening and sentiment analysis platform. Jargon provides users the ability to analyse the sentiments of tweets around a specific topic/topics.

This analysis is performed automatically by the system and presented to the user in a format that best allows them to interpret the data and make better business/personal decisions.



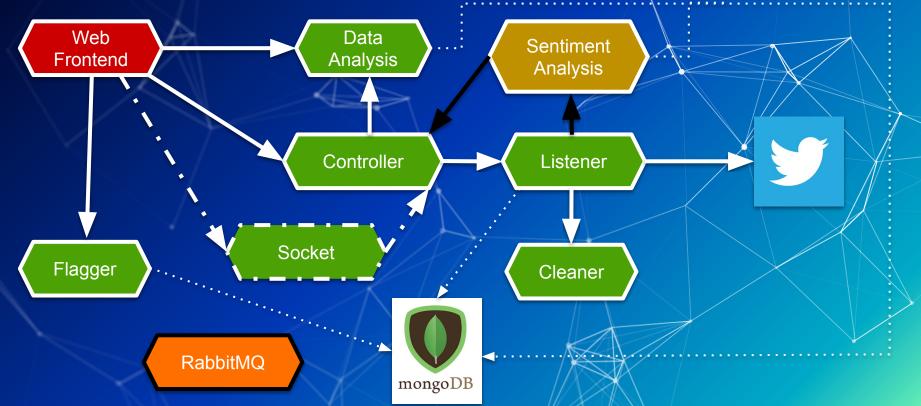


Core Functionality

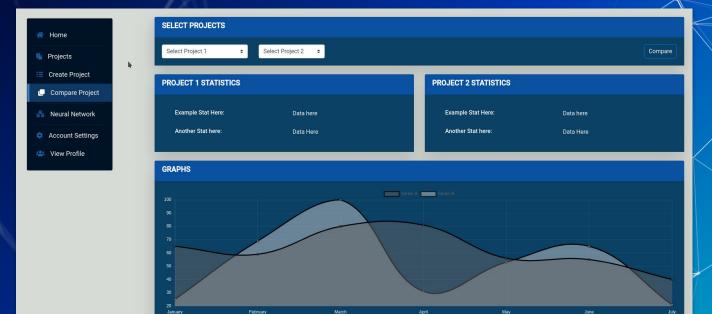
- Manage projects
- Stream realtime social media data
- Clean collected data
- Analyse and display sentiment in realtime
- Statistical Analysis of results
- Compare Projects
- Flag incorrect sentiments (for training and improvement)



Microservices



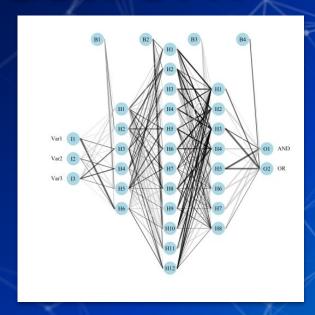
Web Frontend

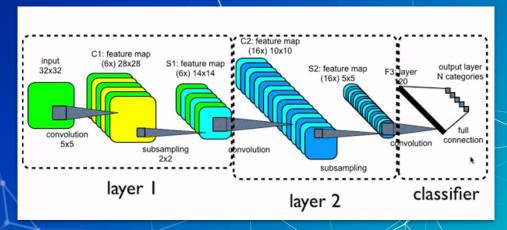


Sentiment Analysis

Convolutional Neural

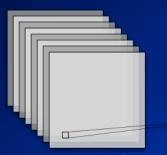
Network





The Convolutional Neural Network used for analysis was built using PyTorch and an open source vector mapping model.

More on The Training



-> Val. LOSS: 1.822 | Val. ACC: //.64% -> Epoch: 192 | Epoch Time: 2m 19s

-> Train Loss: 0.103 | Train Acc: 96.21% -> Val. Loss: 1.802 | Val. Acc: 77.86%

-> Epoch: 193 | Epoch Time: 2m 0s

-> Train Loss: 0.103 | Train Acc: 96.19% -> Val. Loss: 1.813 | Val. Acc: 77.84%

-> Epoch: 194 | Epoch Time: 2m 18s

-> Train Loss: 0.103 | Train Acc: 96.20% -> Val. Loss: 1.776 | Val. Acc: 77.67%

-> Epoch: 195 | Epoch Time: 2m 10s

-> Train Loss: 0.103 | Train Acc: 96.23% -> Val. Loss: 1.824 | Val. Acc: 77.84%

-> Epoch: 196 | Epoch Time: 2m 12s

-> Train Loss: 0.103 | Train Acc: 96.20% -> Val. Loss: 1.778 | Val. Acc: 77.72%

-> Epoch: 197 | Epoch Time: 2m 10s

-> Train Loss: 0.101 | Train Acc: 96.27% -> Val. Loss: 1.823 | Val. Acc: 77.76%

-> Epoch: 198 | Epoch Time: 2m 18s

-> Train Loss: 0.103 | Train Acc: 96.22% -> Val. Loss: 1.809 | Val. Acc: 77.75%

-> Epoch: 199 | Epoch Time: 2m 20s

-> Train Loss: 0.103 | Train Acc: 96.19% -> Val. Loss: 1.799 | Val. Acc: 77.75%

-> Epoch: 200 | Epoch Time: 2m 7s

-> Train Loss: 0.103 | Train Acc: 96.23%

-> Val. Loss: 1.780 | Val. Acc: 77.83%

training data is abundantly available and can be obtained through automated means. We show that machine learning algorithms (Naive Bayes, Maximum Entropy, and SVM) have accuracy above 80% when trained with emotion data. This paper also describes the preprocessing steps needed in order to achieve high accuracy. The main contribution of this paper is the idea of using tweets with emotions for

Citation: Go, A., Bhayani, R. and Huang, L., 2009. Twitter sentiment classification using distant supervision. *CS224N Project Report, Stanford,* 1(2009), p.12.

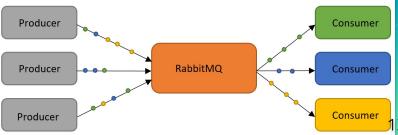
Domain-specific tweets Our best classifier has an accuracy of 83.0% for tweets across all domains. This is a very large vocabulary. If limited to particular domains (such as movies) we feel our classifiers may perform better.

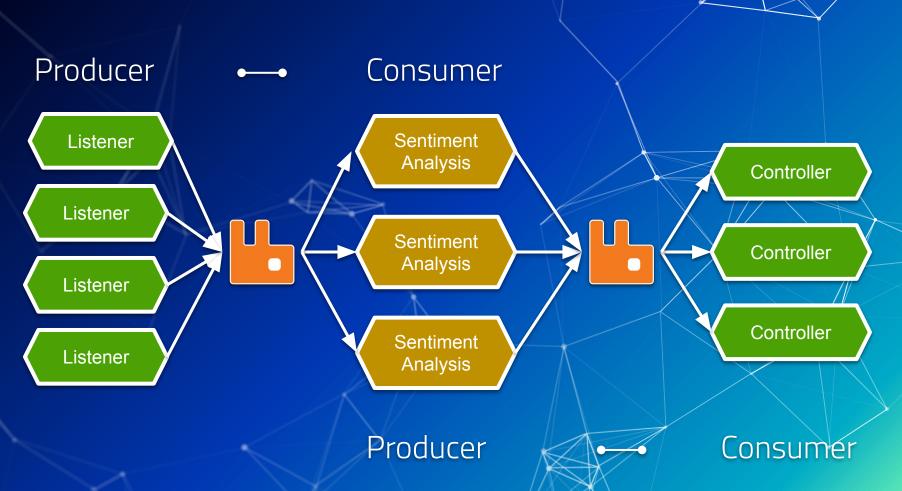
Utilizing emoticon data in the test set Emoticons are stripped from our training data. This means that if our test data contains an emoticon feature, this does not influence the classifier towards a class. This should be addressed because the emoticon features are very valuable.

RabbitMQ

RabbitMQ was utilized to ensure safe, concurrent messaging throughout our Microservices architecture. Scalability was a key requirement we wanted to achieve and RabbitMQ is one of the ways in which we ensured that data transfer balancing would scale with our system.







Most Impressive Aspects

Architecture and use of modern technology stacks.

Use and implementation of sophisticated Al.

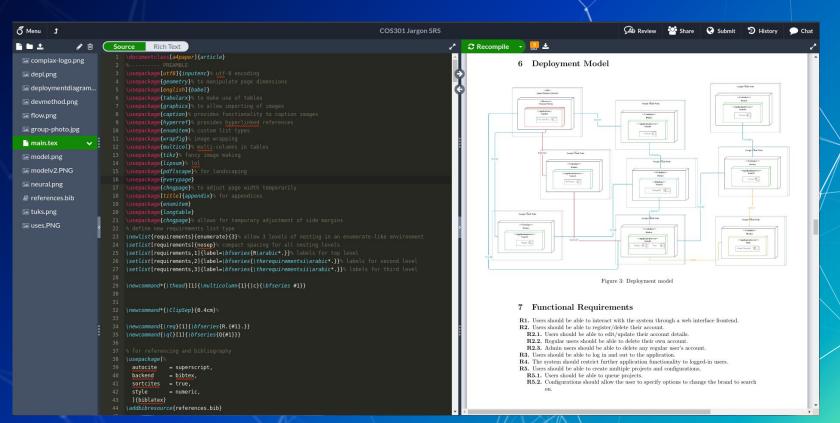
Relevance of data in the ever-evolving modern world.

DevOps and Project Management





Gverleaf











Travis CI

