



Sentiment Analysis on Twitter



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What is Sentiment Analysis?

Classification of sentiment in a given text as positive, negative or lneutral.

Motivation

- Sentiment Analysis can be used to mine popular opinion about products, services and current issues.
- 2. High Volume of Tweets from all parts of the world
- 3. Rate of transfer of information

Related Work

- 1. Prediction of Box office collections based on the volume of tweets.
- 2. Sentiment Classification using machine learning techniques on blogs and movie reviews.
- 3. Automating the process of collecting training data.

Collecting Training Data

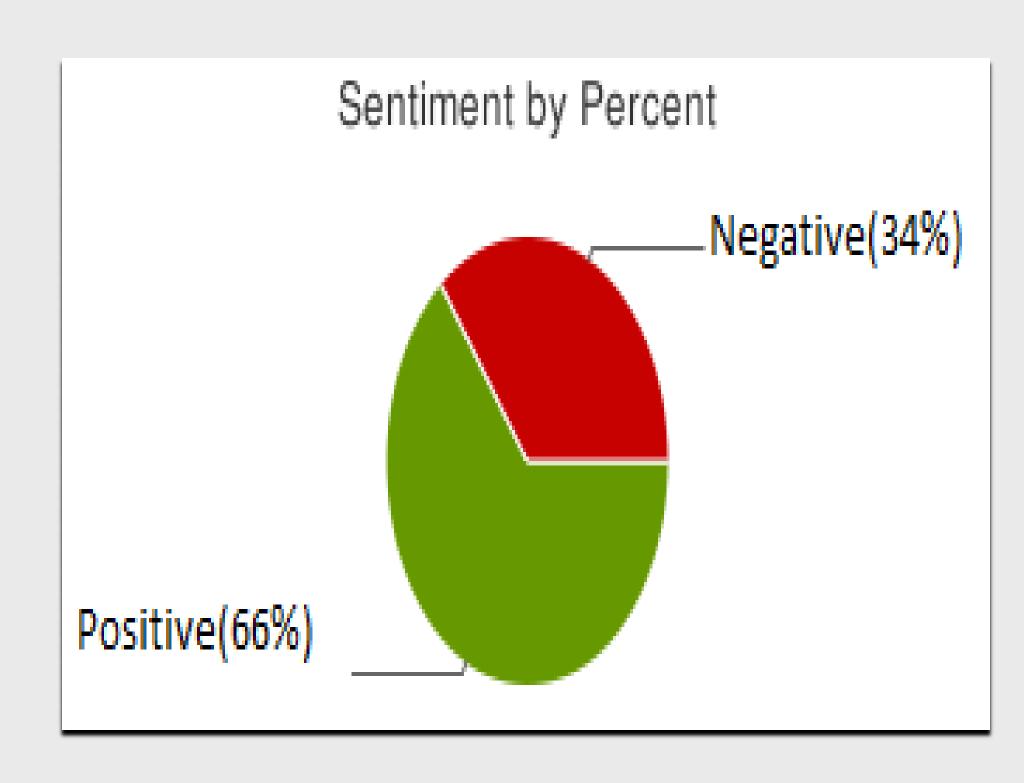
Amazon Mechanical Turk

Features

- Sentiment Identification
- Words
- Part of Speech Tagging
- Emoticons
- Punctuation Marks
- Context from previous tweets
- User Profiling
- Retweets

2. Degree of Sentiment

- User-Profiling
- Retweets
- Presence of URL's
- Presence of Emoticons



Sentiment analysis of the movie 'IRON MAN' based on over 40.000 tweets

Applications

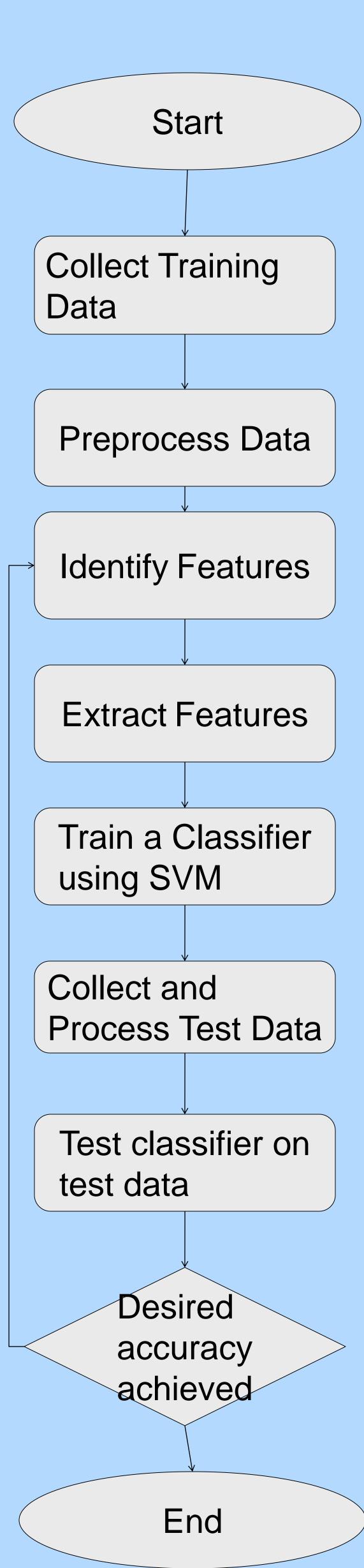
- 1. Movie and product sales prediction.
- 2. Gathering general public opinion.
- 3. Businesses and organizations:
 - product and service benchmarking.
- market intelligence.
- 4. Individuals: interested in other's opinions when
 - purchasing a product or using a service,
- finding opinions on political topics

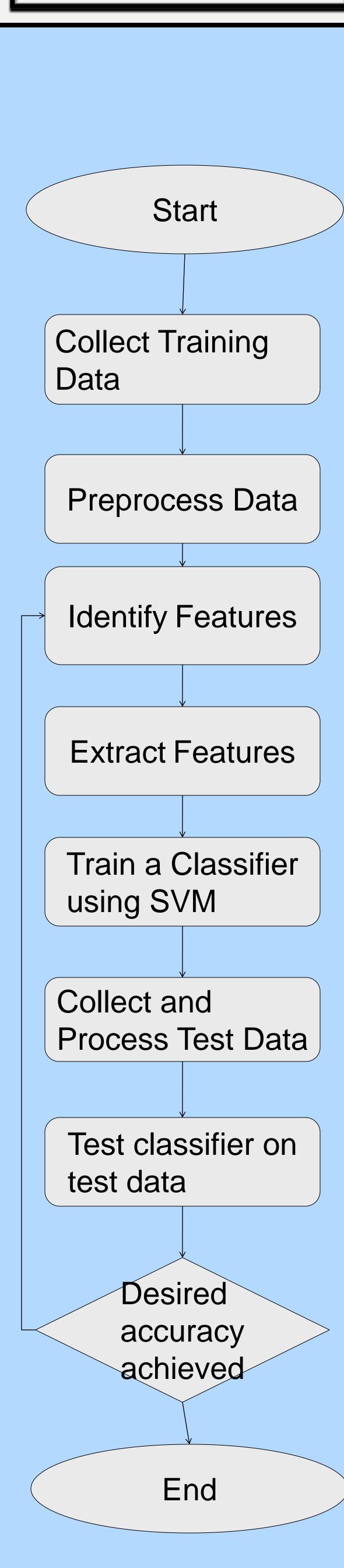
Future Work

- Analyzing semantics of tweets using topic analysis model
- Generalizing the model to handle tweets in other languages

References

- [Alec Go, Richa Bhayani and Lei Huang, Twitter Sentiment Classification using Distant Supervision
- Sitaram Asur, Berardo A. Huberman, Predicting the Future With Social Media
- B. Pang, L. Lee, and S. Vaithyanathan. Thumbs up? Sentiment classification using machine learning techniques.





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