

Dataset \Rightarrow Preprocess \Rightarrow Apply \Rightarrow Model
(feature Engineering) Embedding (Parametric Classification Model)

Gaussian Naive Bayes

\hookrightarrow Prior Probability & Posterior Probability

\rightarrow Feature Engineering:

\hookrightarrow Regex

\hookrightarrow Sentence Tokenization

\hookrightarrow Stopwords

\hookrightarrow Lemmatization (Base form word creation).

\rightarrow Embeddings:

\hookrightarrow Bag of Words

\hookrightarrow TF-IDF

⇒ Naive Bayes :

[features] [label]
x y

Parametric
Supervised
Classification
Algorithm

→ Sentiment Analysis :

99% Binary Classification

1% Multi-Label Classification

[x] [y] } Emotion

[Anger, Fear, Sadness, Happiness, Elated]
Negative Positive

[Anger, I feel nothing, Happiness]
Negative Neutral Positive

- W Neutral Positive

Data \Rightarrow Feature \Rightarrow Embedding \Rightarrow Model
EgS