

# Sentiment Analysis using Deep Learning with Tensorflow

Sentiment analysis is the contextual study that aims to determine the opinions, feelings, outlooks, moods and emotions of people towards entities and their aspects. The primitive functions of sentiment analysis are emotion recognition that focuses on extracting a cluster of emotion labels and polarity detection which aims to classify the writer's attitude as positive, negative and neutral.

## DATASET

### Women's E-Commerce Clothing Reviews

This is a Women's Clothing E-Commerce dataset revolving around the reviews written by customers. Its nine supportive features offer a great environment to parse out the text through its multiple dimensions. Because this is real commercial data, it has been anonymized, and references to the company in the review text and body have been replaced with "retailer".

Data Source: <https://www.kaggle.com/nicapotato/womens-ecommerce-clothing-reviews>

## Content

This dataset includes 23486 rows and 10 feature variables. Each row corresponds to a customer review, and includes the variables:

- *Clothing ID*: Integer Categorical variable that refers to the specific piece being reviewed.
- *Age*: Positive Integer variable of the reviewers age.
- *Title*: String variable for the title of the review.
- *Review Text*: String variable for the review body.
- *Rating*: Positive Ordinal Integer variable for the product score granted by the customer from 1 Worst, to 5 Best.
- *Recommended IND*: Binary variable stating where the customer recommends the product where 1 is recommended, 0 is not recommended.
- *Positive Feedback Count*: Positive Integer documenting the number of other customers who found this review positive.
- *Division Name*: Categorical name of the product high level division.
- *Department Name*: Categorical name of the product department name.
- *Class Name*: Categorical name of the product class name.