# **E-Commerce Clothing Review Classification with TF**

## Abstract

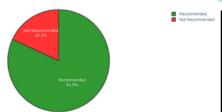
Analyzing customer reviews to predict if a customer will recommend the product. Text mining is to examining large collections of text and converting the unstructured text data into structured data for analysis.

# **Data Features**

Clothing ID, Clothing ID, Title, Review Text, Rating, Recommended IND, Positive Feedback Count, Division Name, Department Name, Class Name



Distribution of the Recommendations





# **Approach Text Extraction**

Data Preprocessing

Data Pre-processing and EDA

Train-Test-Validation Split

Tokenizing and Padding

**ANN Model Creation and Evaluation** 

#### Model

====1 - 2s 5ms/step - loss: 0.2000 - accuracy: 0.9195 - val loss: 0. 425/425 [== 425/425 [== - 2s 5ms/step - loss: 0.1998 - accuracy: 0.9207 - val loss: 0. 425/425 [== 2s 5ms/step - loss: 0.1935 - accuracy: 0.9237 - val loss: 0. cy: 0.8962 Epoch 39/100 425/425 [= cy: 0.8955 Epoch 40/100 425/425 [= 2s 4ms/step - loss: 0.1944 - accuracy: 0.9206 - val\_loss: 0. cy: 0.8970 ====] - 2s 5ms/step - loss: 0.1864 - accuracy: 0.9292 - val\_loss: 0. 425/425 [=

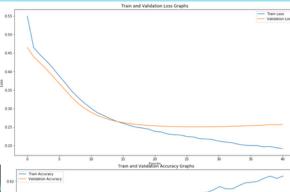


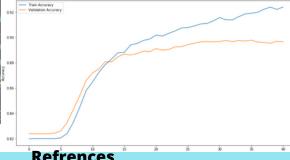




### Results







# Refrences

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- https://stackabuse.com/removing-stop-words-from-strings-inpython/
- https://www.geeksforgeeks.org/python-lemmatization-with-nltk/
- https://www.kaggle.com/rmisra/news-headlines-dataset-forsarcasm-detection
- https://uk.trustpilot.com/review/www.yoursclothing.co.uk?stars=4