BERT Sentiment Analysis to Detect Twitter Sarcasm

(Naive Approach)

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**Table of content**

[A. Introduction 3](#_Toc56018949)

[B. Bidirectional Encoder Representations from Transformers (BERT) 3](#_Toc56018950)

[C. Dataset Description 4](#_Toc56018951)

[D. The Naive Approach 4](#_Toc56018952)

[E. The Model, Training, and Evaluation 5](#_Toc56018953)

[F. The Software Code 6](#_Toc56018954)

[F.1. NAIVE\_BERT\_sentiment\_analysis.ipynb Code Review 6](#_Toc56018955)

[1. Colab Configuration 6](#_Toc56018956)

[2. Mounting Google Drive to Colab session (To save result files) 9](#_Toc56018957)

[3. The Main Python Class 10](#_Toc56018958)

[4. Training and Evaluation experiments 11](#_Toc56018959)

[5. Save the result files to Google Drive 12](#_Toc56018960)

[F.2. DEMO\_Model\_Evaluation.ipynb Code Review 13](#_Toc56018961)

[1. The first 3-steps are already explained in detail in the previous section 13](#_Toc56018962)

[2. Preparing the encoded testing dataset and data loader 13](#_Toc56018963)

[3. Run the evaluation batch iteration 14](#_Toc56018964)

[4. Generate the ‘anwer.txt’ file 15](#_Toc56018965)

[5. Post ‘answer.txt’ to LiveDataLab for scoring 16](#_Toc56018966)

[G. Result and Conclusion 16](#_Toc56018967)

[Reference 17](#_Toc56018968)

[Appendix 17](#_Toc56018969)

[1. answer.txt 17](#_Toc56018970)

## Introduction

*Sarcasm is a form of figurative language that implies a negative sentiment while displaying a positive sentiment on the surface*

*(Joshi et al., 2017).*

I present a ***Naive*** approach to detect *Twitter* tweet sarcasm sentiment using a transformers-based pre-trained model that considers only the ***response tweet***. This approach completely ignores the ***context*** of the response tweet to train the model.

The model uses a transformer encoder to generate the embedding representation for the response. The model is trained and evaluated on the given training and testing datasets. My best performance model gives an ***F1***-score of ***75.79%****, beating the Classification Competition baseline score after* **four** *epoch iterations (epoch # 4).*

***“C. Dataset Description”*** section of this document explains further the ***response*** and ***context*** relationship.

Important files in the project:

1. Documented software code

* Training and evaluation [(link)](https://github.com/zen030/CourseProject/blob/main/NAIVE_BERT_sentiment_analysis.ipynb)
* Evaluation of a trained-model for demo purpose [(link)](https://github.com/zen030/CourseProject/blob/main/DEMO_Model_Evaluation.ipynb)

1. Best performance testing set predictions (answer.txt) [(link)](https://github.com/zen030/CourseProject/blob/main/answer.txt)
2. Best performance trained-model [(link)](https://drive.google.com/file/d/1EMcBXsFPqOVg4w_-Nob4ebWA0qTr9SLQ/view?usp=sharing)
3. Training dataset [(link)](https://github.com/zen030/CourseProject/blob/main/train.jsonl)
4. Testing dataset [(link)](https://github.com/zen030/CourseProject/blob/main/test.jsonl)

## Bidirectional Encoder Representations from Transformers (BERT)

This project uses BERT, a transformer-based technique for Natural Language Processing pre-training developed by a team in *Google*.

The original English language BERT model comes with two pre-trained model types:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model Type | Layer | Hidden | Head | Parameter | Corpus Word |
| **Base** | 12 | 768 | 12 | 110 M | 800 M |
| **Large** | 24 | 1024 | 16 | 340 M | 2.500 M |

*Table 1: BERT original model types*

BERT Large model essentially has better computing leverage than the base model. Google team trained the large model using a larger corpus word size than the base model. The large model is expected to perform better than the base model in most of the NLP tasks such as sentiment analysis.

Original BERT paper is available here [(link)](https://arxiv.org/pdf/1810.04805.pdf).

## Dataset Description

There are two *Twitter* tweet datasets available for this project:

1. Training dataset: a labeled dataset to train the model
2. Testing dataset: tweet with a unique ID to evaluate the trained-model

For the training dataset, each line contains a JSON object with the following columns:

* ***label***: **SARCASM** or **NOT\_SARCASM**
* ***response***: the classified tweet
* ***context***: the conversation context of the response

For the testing/evaluation dataset, each line contains a JSON object with the following columns:

* ***id***: unique identifier for the sample
* ***response***: the tweet to be classified
* ***context***: the conversation context of the response

|  |  |
| --- | --- |
| Training Dataset | Testing Dataset |
| 5000 lines | 1800 lines |

*Table 2: Dataset size statistics*

A more detailed dataset description is available in the project competition Github repository [(link)](https://github.com/CS410Fall2020/ClassificationCompetition/blob/main/README.md).

## The Naive Approach

I hypothesize the ***context*** does not ***always*** support the sentiment of a ***response***. Context can have an opposing effect on the sentiment of a response.

I hypothesize there are 2 types of context:

1. ***A Positive context*** is a context that supports the sentiment of a response.
2. ***Negative context*** is a context that does not support the sentiment of a response.

Sentiment

Negative

Context

*Fig.1: Illustration of context reduces sentiment quality*

Positive

Context

S e n t i m e n t

*Fig.2: Illustration of context increase sentiment quality*

It is critical to utilize the context to support the response’s sentiment. For this project, I consider only the *sentiment-labeled* response to training the model, and I completely ignore the context. I call this a ***Naive*** approach.

*In the future project*, I can use advanced machine learning techniques to utilize response and context to train the model by ***selectively*** ***reconstruct*** the context to support the sentiment of a response.

## The Model, Training, and Evaluation

In this project, I use the datasets to train and evaluate BERT Large uncased and base uncased models.

I use the original BERT paper as a reference ([*A.3 Fine-tuning Procedure*](https://arxiv.org/pdf/1810.04805.pdf)) to choose hyperparameters for my experiments. The hyperparameters in my experiments are:

* Learning rate: 2e-5
* Batch size: 5 (considering memory size)
* Epochs: 4 iterations
* Epsilon: 1e-8
* Random seed value: 17

BERT model can handle a text with a maximum of 512 characters. If the input text is more than 512 characters, the model truncates the text to 512 characters.

Response text in training and testing datasets is less than 512 characters, in this case, we are guaranteed to consider all words in the response text to train and evaluate the model. The Python source code below prints the response maximum characters for training and testing datasets.

Graphical user interface, text, application

Description automatically generated

*Fig.3: Source code to check maximum training and evaluation response characters length*

|  |  |
| --- | --- |
|  | Response Max. Chars |
| Training Dataset | 315 |
| Testing Dataset | 310 |

*Table 3: Maximum response characters length*

## The Software Code

For the software code of this project, I implemented two Google Colab Notebooks:

1. ***NAIVE\_BERT\_sentiment\_analysis.ipynb***: Training and evaluation notebook [(link)](https://github.com/zen030/CourseProject/blob/main/NAIVE_BERT_sentiment_analysis.ipynb)
2. ***DEMO\_Model\_Evaluation.ipynb***: Evaluation of selected trained-model notebook (for DEMO purpose) [(link)](https://github.com/zen030/CourseProject/blob/main/DEMO_Model_Evaluation.ipynb)

I use the *Google* Colab ***PRO*** environment to implement and test the software code. Introduction about Google Colab is available here [link](https://colab.research.google.com/github/tensorflow/examples/blob/master/courses/udacity_intro_to_tensorflow_for_deep_learning/l01c01_introduction_to_colab_and_python.ipynb).

Software code uses the following main Python libraries:

* ***Numpy*** 1.18.5
* ***Pytorch*** 1.7.0+cu101
* ***Huggingface Transformers*** 3.5.0

### F.1. NAIVE\_BERT\_sentiment\_analysis.ipynb Code Review

This notebook trains and evaluates the BERT Large uncased and base uncased models using the provided datasets. In the end, the trained-model and evaluation results are copied and stored in the project Google Drive folder.

#### Colab Configuration

1. Install Python modules required for the notebook.

Text

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1. Copy train.jsonl and test.jsonl files from Google Drive to Colab session

I have already copied train.jsonl and test.jsonl files to a Google Drive account created for this project. The files are shared with the public. The following code will copy the files from Google Drive to the Colab session.

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The source code above will prompt a URL. Click the URL, it will prompt the Google account login page.

Graphical user interface, text, application, Word

Description automatically generated

Select the Google account to run the notebook:

Graphical user interface, text, application, email

Description automatically generated

Click the “Allow” button to allow Google Cloud SDK to access the Google account.

Graphical user interface, text, application

Description automatically generated

That finally prompts the verification code. Copy the code and paste it in the “Enter verification code” text box. Press “Enter”

Graphical user interface, text, application, email

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Graphical user interface, application

Description automatically generated

That will copy the training and testing datasets to the Colab session! We are ready to train and evaluate the model using the datasets.

Graphical user interface, text, application, email

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#### Mounting Google Drive to Colab session (To save result files)

To save the result files (the trained-model and answer.txt) to Google Drive, we need to mount Google Drive to the Colab session. In this project, I mount the Google Drive directory to the ‘***./content/uiuc***’ folder.

Graphical user interface, text, application

Description automatically generated

At the end of this notebook code execution, the Google Drive mounted folder in the Colab session will look like the following:

A picture containing text

Description automatically generated

*Mounted Google Drive in Colab Session where to keep result files permanently*

#### The Main Python Class

This project implements a Python class, BERT\_Model, that handles the following tasks:

* + Read the dataset from JSONL files into a list of JSON
  + Convert list of JSON to Pandas DataFrame
  + Create the BERT Model
  + Run the training and save the model for each epoch
  + Evaluate the model and store the result into a file

Below are the class signatures:

Text, letter

Description automatically generated

For details please check the source code here [link](https://github.com/zen030/CourseProject/blob/main/NAIVE_BERT_sentiment_analysis.ipynb). The source code comment describes what each step does.

The main algorithm of the training:

1. Create a BERT tokenizer. We use the tokenizer to encode the text and prepare the dataset.
2. Create a BERT model using the chosen hyperparameter.
3. Create AdamW optimizer [(link)](https://arxiv.org/pdf/1412.6980), it is used to calculate the convergence in the model. It is considered the fastest convergence algorithm.
4. Create a data loader. The data loader main task is passing dataset batch to model. It will make sure all the text in the dataset is processed by the model.
5. Set the model to train mode. Iterate the data loader to pass the dataset batch to the model until the training is completed.
6. After the training is completed, save the trained model to a file.

The main algorithm of testing:

1. Set the model to evaluation mode.
2. Load the model file to the memory.
3. Create the tokenizer, encode the input data for testing, and prepare the dataset.
4. Create the data loader to handle the evaluation batch.
5. One of the most important outputs from the model is logits. In this project, logits is an array of two elements. The model is configured to have the first element of logits represents SARCASM, and the second element represents NOT\_SARCASM.
6. We use the NumPy argmax function to return the index of the maximum value in logits.
   * If the maximum value is the first element, the function returns the index array of ***0*** (SARCASM)
   * If the maximum value is the second element, the function returns the index array of ***1*** (NOT\_SARCASM)
7. The final step is to write the output to a file (answer.txt)

#### Training and Evaluation experiments

To test my ***Naive*** hypothesis, I run experiments with the same hyperparameters on two BERT models.

1. Experiment-1: BERT base uncased

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1. Experiment-2: BERT LARGE uncased

Text

Description automatically generated

Both experiments code above will generate result files in the Colab session folder below:

Graphical user interface, text, application

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#### Save the result files to Google Drive

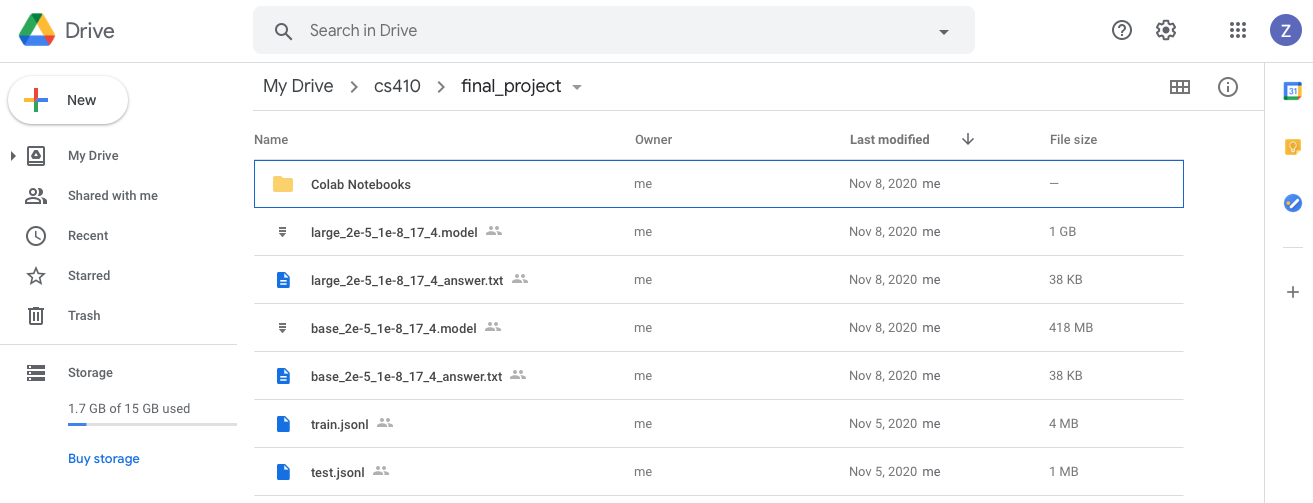
Colab deletes result files when the session ends. We need to store the files permanently in other locations, in this project I use Google Drive.

The code below will copy the result files to the project Google Drive folder (the Google Drive folder has been mounted in the earlier step).

In this project, I save the epoch # 4 model file only.







We use the files stored in the project Google Drive folder to run a project ***demo***. The next section will illustrate how to use the trained-model file to evaluate the testing dataset.

### F.2. DEMO\_Model\_Evaluation.ipynb Code Review

In the demo notebook, I demonstrate how to generate ‘answer.txt’ from the BERT Large uncased trained-model stored in the project Google Drive folder. The trained-model is available to the public here [link](https://drive.google.com/file/d/1EMcBXsFPqOVg4w_-Nob4ebWA0qTr9SLQ/view?usp=sharing). With this model, we will reproduce the evaluation result which is available to the public here [link](https://drive.google.com/file/d/1b2vKQDbo-BbLwWok9qDeZzkAxpQYfaSp/view?usp=sharing).

The demo video is available here ***link***.

The main algorithm in the notebook demo:

#### The first 3-steps are already explained in detail in the previous section

##### Colab configuration (Python modules import and installation)

##### Copy the trained-model and testing dataset files from Google Drive to the Colab session. We need to authorize Colab to access the Google account described in the previous section.

##### Prepare Panda DataFrame for the testing dataset.

#### Preparing the encoded testing dataset and data loader

The main steps:

* Create the BERT tokenizer to encode the testing dataset.
* Create the data loader to run the evaluation in batches.

Graphical user interface, text, application, email

Description automatically generated

*Preparing the Python objects for the evaluation*

#### Run the evaluation batch iteration

The main steps:

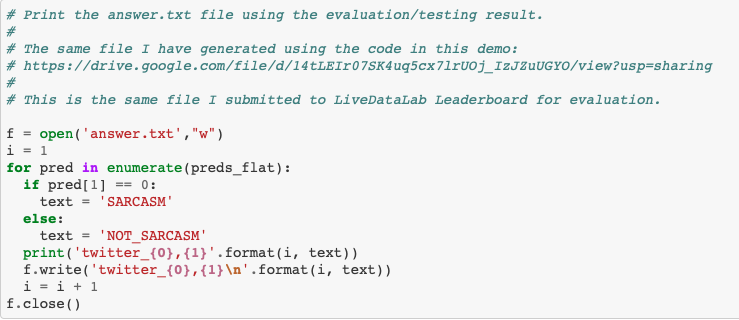
* Set the device to GPU, if applicable.
* Load the trained-model from file to memory.
* Set the model to evaluation mode.
* Data loader iteration to pass text to evaluate in batches to the model.
* The model output logits (how to process logits is described in the previous section)

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#### Generate the ‘anwer.txt’ file

Generate the sentiment output to the screen and ‘answer.txt’ file.



#### Post ‘answer.txt’ to LiveDataLab for scoring

For F1, precision, and recall scores evaluation, I post the ‘answer.txt’ to LiveDataLab.

Table

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*Leaderboard snapshot on 03-Nov-2020*

## Result and Conclusion

In summary, the testing/evaluation results from BERT Large and base models:

|  |  |  |  |
| --- | --- | --- | --- |
| Model | F1-Score | Recall | Precision |
| BERT Large uncased | **0.757905138339921** | 0.8522222222222222 | 0.6823843416370107 |
| BERT Base uncased | 0.7458777885548012 | 0.8544444444444445 | 0.6617900172117039 |

Surprisingly, the base model performs almost as good as the large model. In this project, I did try to use different trained-model such as RoBERTa and XLNet (and different hyperparameters), but I could not produce a result higher than BERT Large uncased score. The project scope as proposed in the project proposal, I am reporting the result for BERT models only.

In the future, I would like to explore more on the following topics:

* Using advanced machine learning technique to techniques other hyperparameters options in BERT models.
* Utilizing the context ***and*** response to train the models. I hypothesize that the context can be used as an additional dataset to train the model.
* Explore another model such as RoBERTa and XLNet.

## Reference

1. Aditya Joshi, Pushpak Bhattacharyya, and Mark J. Car- man. 2017. Automatic Sarcasm Detection: A Survey. *ACM Computing Surveys*, 50(5):1–22.
2. Jacob Devlin, Ming-Wei Chang, Kenton Lee, and Kristina Toutanova. 2019. BERT: Pre-training of Deep Bidirectional Transformers for Language Understanding.

## Appendix

### answer.txt

|  |
| --- |
| twitter\_1,NOT\_SARCASM  twitter\_2,SARCASM  twitter\_3,SARCASM  twitter\_4,NOT\_SARCASM  twitter\_5,SARCASM  twitter\_6,SARCASM  twitter\_7,NOT\_SARCASM  twitter\_8,SARCASM  twitter\_9,NOT\_SARCASM  twitter\_10,SARCASM  twitter\_11,NOT\_SARCASM  twitter\_12,SARCASM  twitter\_13,SARCASM  twitter\_14,NOT\_SARCASM  twitter\_15,SARCASM  twitter\_16,SARCASM  twitter\_17,SARCASM  twitter\_18,SARCASM  twitter\_19,SARCASM  twitter\_20,NOT\_SARCASM  twitter\_21,NOT\_SARCASM  twitter\_22,SARCASM  twitter\_23,NOT\_SARCASM  twitter\_24,SARCASM  twitter\_25,SARCASM  twitter\_26,SARCASM  twitter\_27,NOT\_SARCASM  twitter\_28,NOT\_SARCASM  twitter\_29,SARCASM  twitter\_30,NOT\_SARCASM  twitter\_31,SARCASM  twitter\_32,NOT\_SARCASM  twitter\_33,NOT\_SARCASM  twitter\_34,SARCASM  twitter\_35,NOT\_SARCASM  twitter\_36,SARCASM  twitter\_37,SARCASM  twitter\_38,SARCASM  twitter\_39,SARCASM  twitter\_40,SARCASM  twitter\_41,SARCASM  twitter\_42,NOT\_SARCASM  twitter\_43,SARCASM  twitter\_44,NOT\_SARCASM 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