

# Team GitGud Level-3 Submission

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## Introduction

- Final contains the final runnable code.
  - Final/static contains saved models / functions / data.
- Trials contains our experimental code
  - Trial/ML Model contains code for our ML model development.
    - Trial/ML Model/static contains saved models / data.
  - Trial/Scores contains code computing the various scores.
    - Trial/Scores/static contains saved models / data / functions.

## Folder Structure

```
|  README.md
|
|—Final
|  |  advanced.txt | Advanced Financial Terms (Processed)
|  |  api_keys.py  | API Keys for Tweepy
|  |  common.txt   | Common Financial Terms (Processed)
|  |  model.py     | Predicting with trained model
|  |  score.py     | Main Runner Code
|  |  users.txt    | List of users
|  |
|  |  |
|  |  |—static
|  |  |  advancedterms.txt      | Advanced Financial Terms
|  |  |  commonfinterms.txt     | Common Financial Terms
|  |  |  Logistic_Regression.mdl | Saved ML Model
|  |  |  Scaler_1.mdl           | Saved Normalizer
|  |  |  Scaler_2.mdl           | Saved Normalizer
|  |  |  Vectorizer_CV.mdl      | Saved Vectorizer
|  |  |  wordfreq.json          | Saved Word Counts
|—Trials
|  |—ML Model
|  |  SentimentAnalysisTrails.ipynb      | Notebook for trying out models
|  |  SentimentAnalysis_Final_Model.ipynb | Notebook for exporting models
|  |  |
|  |  |—static
|  |  |  Logistic_Regression.mdl | Saved ML Model
|  |  |  Vectorizer_CV.mdl       | Saved Vectorizer
```

	wordfreq.json	Saved Word Counts
	└─ Scores	
	advanced.txt	Advanced Financial Terms (Processed)
	api_keys.py	API Keys for Tweepy
	common.txt	Common Financial Terms (Processed)
	model.py	Predicting with trained model
	score.ipynb	Main Notebook
	users.txt	List of users
	└─ static	
	advancedterms.txt	Advanced Financial Terms
	commonfinterms.txt	Common Financial Terms
	Logistic_Regression.mdl	Saved ML Model
	Scaler_1.mdl	Saved Normalizer
	Scaler_2.mdl	Saved Normalizer
	Vectorizer_CV.mdl	Saved Vectorizer
	wordfreq.json	Saved Word Counts

## How to run?

To run the code perform the following

- Run the following command to install all required libraries in the root directory (GidGudPOC)
  - `pip install -r requirements.txt`
- Run the following commands to start the program
  - `cd ./Final`
  - `python score.py`
  - The output will be exported to a `output.csv` file.