

Financial Technology Final Project

Scraping

Obtain links



Stock Market News

Drop Duplicates



Webpage: limited news & every 5-hour update 100 news

Scrap Info

Contents: Abbreviations, Time, Title, News

NLP

Keywords

Set Parameters



max_ngram_size = 3
deduplication_threshold = 0.9
numOfKeywords = 20

Attitudes

Catch pos & neg

Classification

Finance Corpus



Word2Vec + CNN



Transcoding

Tokenization

Sequencing



y: label
&
x: text

Train model

Evaluate model



Labeling

Flask

HTML

Stock News Analysis

Query from Abbreviations

AWS

Connection

<http://18.116.165.240/>

Part	Knowledge	Main Packages
Scraping	<ul style="list-style-type: none"> Web scraping Anti-scraping 	<ul style="list-style-type: none"> BeautifulSoup (bs4) webdriver
NLP	<ul style="list-style-type: none"> Sentiment Analysis Word2Vec Neural Network (CNN) 	<ul style="list-style-type: none"> Yake Keras SentimentIntensityAnalyzer Tokenizer sklearn
Flask	<ul style="list-style-type: none"> HTML Flask 	<ul style="list-style-type: none"> Flask
AWS	<ul style="list-style-type: none"> AWS EC2 	