DonorsChoose

DonorsChoose.org receives hundreds of thousands of project proposals each year for classroom projects in need of funding. Right now, a large number of volunteers is needed to manually screen each submission before it's approved to be posted on the DonorsChoose.org website.

Next year, DonorsChoose.org expects to receive close to 500,000 project proposals. As a result, there are three main problems they need to solve:

- How to scale current manual processes and resources to screen 500,000 projects so that they can be posted as quickly and as efficiently as possible
- How to increase the consistency of project vetting across different volunteers to improve the experience for teachers
- How to focus volunteer time on the applications that need the most assistance

The goal of the competition is to predict whether or not a DonorsChoose.org project proposal submitted by a teacher will be approved, using the text of project descriptions as well as additional metadata about the project, teacher, and school. DonorsChoose.org can then use this information to identify projects most likely to need further review before approval.

About the DonorsChoose Data Set

The `train.csv` data set provided by DonorsChoose contains the following features:

Feature	Description
`project_id`	A unique identifier for the proposed project. **Example**
`project_title`	Title of the project. **Examples:** • `Art Will Make You Happy!` • `First Grade Fun`
`project_grade_category`	Grade level of students for which the project is targete enumerated values: • `Grades PreK-2` • `Grades 3-5` • `Grades 6-8` • `Grades 9-12`
`project_subject_categories`	One or more (comma-separated) subject categories f following enumerated list of values: • `Applied Learning` • `Care & Hunger` • `Health & Sports` • `History & Civics` • `Literacy & Language` • `Math & Science` • `Music & The Arts` • `Special Needs` • `Warmth` **Examples:** • `Music & The Arts` • `Literacy & Language, Math & Science`
`school_state`	State where school is located (Two-letter U.S. postal (https://en.wikipedia.org/wiki/List_of_U.S._state_abbr **Example:** `WY`
`project_subject_subcategories`	One or more (comma-separated) subject subcategori **Examples:** • `Literacy` • `Literature & Writing, Social Sciences`
`project_resource_summary`	An explanation of the resources needed for the projec • `My students need hands on literacy mater` `sensory needs!`

Feature	Description
`project_essay_1`	First application essay[*]
`project_essay_2`	Second application essay[*]
`project_essay_3`	Third application essay[*]
`project_essay_4`	Fourth application essay[*]
`project_submitted_datetime`	Datetime when project application was submitted. **Exa** `12:43:56.245`
`teacher_id`	A unique identifier for the teacher of the proposed pro `bdf8baa8fedef6bfeec7ae4ff1c15c56`
`teacher_prefix`	Teacher's title. One of the following enumerated value • `nan` • `Dr.` • `Mr.` • `Mrs.` • `Ms.` • `Teacher.`
`teacher_number_of_previously_posted_projects`	Number of project applications previously submitted b **Example:** 2

[*] See the section **Notes on the Essay Data** for more details about these features.

Additionally, the `resources.csv` data set provides more data about the resources required for each project. Each line in this file represents a resource required by a project:

Feature	Description
`id`	A `project_id` value from the `train.csv` file. **Example:** p036502
`description`	Desciption of the resource. **Example:** `Tenor Saxophone Reeds, Box of 25`
`quantity`	Quantity of the resource required. **Example:** 3
`price`	Price of the resource required. **Example:** 9.95

Note: Many projects require multiple resources. The `id` value corresponds to a `project_id` in train.csv, so you use it as a key to retrieve all resources needed for a project:

The data set contains the following label (the value you will attempt to predict):

Label	Description
`project_is_approved`	A binary flag indicating whether DonorsChoose approved the project. A value of 0 indicates the project was not approved, and a value of 1 indicates the project was approved.

Notes on the Essay Data

Prior to May 17, 2016, the prompts for the essays were as follows:
- __project_essay_1:__ "Introduce us to your classroom"
- __project_essay_2:__ "Tell us more about your students"
- __project_essay_3:__ "Describe how your students will use the materials you're requesting"
- __project_essay_3:__ "Close by sharing why your project will make a difference"

Starting on May 17, 2016, the number of essays was reduced from 4 to 2, and the prompts for the first 2 essays were changed to the following:
- __project_essay_1:__ "Describe your students: What makes your students special? Specific details about their background, your neighborhood, and your school are all helpful."
- __project_essay_2:__ "About your project: How will these materials make a difference in your students' learning and improve their school lives?"

For all projects with project_submitted_datetime of 2016-05-17 and later, the values of project_essay_3 and project_essay_4 will be NaN.

Importing Libraries

In [1]:

```python
%matplotlib inline
import warnings
warnings.filterwarnings("ignore")

import sqlite3
import pandas as pd
import numpy as np
import nltk
import string
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.feature_extraction.text import TfidfTransformer
from sklearn.feature_extraction.text import TfidfVectorizer

from sklearn.feature_extraction.text import CountVectorizer
from sklearn.metrics import confusion_matrix
from sklearn import metrics
from sklearn.metrics import roc_curve, auc
from nltk.stem.porter import PorterStemmer

import re
# Tutorial about Python regular expressions: https://pymotw.com/2/re/
import string
from nltk.corpus import stopwords
from nltk.stem import PorterStemmer
from nltk.stem.wordnet import WordNetLemmatizer

from gensim.models import Word2Vec
from gensim.models import KeyedVectors
import pickle

from tqdm import tqdm
import os

from chart_studio import plotly
import plotly.offline as offline
import plotly.graph_objs as go
offline.init_notebook_mode()

from collections import Counter
from prettytable import PrettyTable

from sklearn.naive_bayes import MultinomialNB
from sklearn.metrics import roc_auc_score
import math
```

Loading data

In [2]:

```python
project_data = pd.read_csv('train_data.csv', nrows = 80000)
resource_data =pd.read_csv('resources.csv', nrows = 80000)
```

In [3]:

```
print("Number of data points in train data", project_data.shape)
print('-'*50)
print("The attributes of data :", project_data.columns.values)
```

```
Number of data points in train data (80000, 17)
------------------------------------------------------
The attributes of data : ['Unnamed: 0' 'id' 'teacher_id' 'teacher_prefix'
'school_state'
 'project_submitted_datetime' 'project_grade_category'
 'project_subject_categories' 'project_subject_subcategories'
 'project_title' 'project_essay_1' 'project_essay_2' 'project_essay_3'
 'project_essay_4' 'project_resource_summary'
 'teacher_number_of_previously_posted_projects' 'project_is_approved']
```

In [4]:

```
print("Number of data points in train data", resource_data.shape)
print(resource_data.columns.values)
print(resource_data.head(2))
```

```
Number of data points in train data (80000, 4)
['id' 'description' 'quantity' 'price']
        id                              description  quantity  \
0  p233245  LC652 - Lakeshore Double-Space Mobile Drying Rack         1
1  p069063          Bouncy Bands for Desks (Blue support pipes)        3

    price
0  149.00
1   14.95
```

In [5]:

```
project_data.isnull().any()
```

Out[5]:

```
Unnamed: 0                                      False
id                                             False
teacher_id                                     False
teacher_prefix                                  True
school_state                                   False
project_submitted_datetime                     False
project_grade_category                         False
project_subject_categories                     False
project_subject_subcategories                  False
project_title                                  False
project_essay_1                                False
project_essay_2                                False
project_essay_3                                 True
project_essay_4                                 True
project_resource_summary                       False
teacher_number_of_previously_posted_projects   False
project_is_approved                            False
dtype: bool
```

In [6]:

```python
project_data['teacher_prefix']= project_data['teacher_prefix'].fillna(project_data['teacher_prefix'].mode().iloc[0])
```

In [7]:

```python
# merge two column text dataframe:
project_data["essay"] = project_data["project_essay_1"].map(str) +\
                        project_data["project_essay_2"].map(str) + \
                        project_data["project_essay_3"].map(str) + \
                        project_data["project_essay_4"].map(str)
```

preprocessing subject category

In [8]:

```python
categories = list(project_data['project_subject_categories'].values)
# remove special characters from list of strings python: https://stackoverflow.com/a/47301924/4084039

# https://www.geeksforgeeks.org/removing-stop-words-nltk-python/
# https://stackoverflow.com/questions/23669024/how-to-strip-a-specific-word-from-a-string
# https://stackoverflow.com/questions/8270092/remove-all-whitespace-in-a-string-in-python
cat_list = []
for i in categories:
    temp = ""
    # consider we have text like this "Math & Science, Warmth, Care & Hunger"
    for j in i.split(','): # it will split it in three parts ["Math & Science", "Warmth", "Care & Hunger"]
        if 'The' in j.split(): # this will split each of the catogory based on space "Math & Science"=> "Math","&", "Science"
            j=j.replace('The','') # if we have the words "The" we are going to replace it with ''(i.e removing 'The')
        j = j.replace(' ','') # we are placeing all the ' '(space) with ''(empty) ex:"Math & Science"=>"Math&Science"
        temp+=j.strip()+" " #" abc ".strip() will return "abc", remove the trailing spaces
        temp = temp.replace('&','_') # we are replacing the & value into
    cat_list.append(temp.strip())

project_data['clean_categories'] = cat_list
project_data.drop(['project_subject_categories'], axis=1, inplace=True)

from collections import Counter
my_counter = Counter()
for word in project_data['clean_categories'].values:
    my_counter.update(word.split())

cat_dict = dict(my_counter)
sorted_cat_dict = dict(sorted(cat_dict.items(), key=lambda kv: kv[1]))
```

preprocessing subject subcategory

In [9]:

```python
sub_catogories = list(project_data['project_subject_subcategories'].values)
# remove special characters from list of strings python: https://stackoverflow.com/a/47
301924/4084039

# https://www.geeksforgeeks.org/removing-stop-words-nltk-python/
# https://stackoverflow.com/questions/23669024/how-to-strip-a-specific-word-from-a-stri
ng
# https://stackoverflow.com/questions/8270092/remove-all-whitespace-in-a-string-in-pyth
on

sub_cat_list = []
for i in sub_catogories:
    temp = ""
    # consider we have text like this "Math & Science, Warmth, Care & Hunger"
    for j in i.split(','): # it will split it in three parts ["Math & Science", "Warmt
h", "Care & Hunger"]
        if 'The' in j.split(): # this will split each of the catogory based on space "M
ath & Science"=> "Math","&", "Science"
            j=j.replace('The','') # if we have the words "The" we are going to replace
 it with ''(i.e removing 'The')
        j = j.replace(' ','') # we are placeing all the ' '(space) with ''(empty) ex:"M
ath & Science"=>"Math&Science"
        temp +=j.strip()+" "#" abc ".strip() will return "abc", remove the trailing spa
ces
        temp = temp.replace('&','_')
    sub_cat_list.append(temp.strip())

project_data['clean_subcategories'] = sub_cat_list
project_data.drop(['project_subject_subcategories'], axis=1, inplace=True)

# count of all the words in corpus python: https://stackoverflow.com/a/22898595/4084039
my_counter = Counter()
for word in project_data['clean_subcategories'].values:
    my_counter.update(word.split())

sub_cat_dict = dict(my_counter)
sorted_sub_cat_dict = dict(sorted(sub_cat_dict.items(), key=lambda kv: kv[1]))
```

preprocessing teacher prefix

In [10]:

```
prefix = list(project_data['teacher_prefix'].values)
# remove special characters from list of strings python: https://stackoverflow.com/a/47
301924/4084039

# https://www.geeksforgeeks.org/removing-stop-words-nltk-python/
# https://stackoverflow.com/questions/23669024/how-to-strip-a-specific-word-from-a-stri
ng
# https://stackoverflow.com/questions/8270092/remove-all-whitespace-in-a-string-in-pyth
on

prefix_list = []
for i in prefix:
    temp = ""
    if "." in i:
        i = i.replace('.','')
        temp +=i.strip()+" "#" abc ".strip() will return "abc", remove the trailing spa
ces
    prefix_list.append(temp.strip())

project_data['teachers_prefix'] = prefix_list
project_data.drop(['teacher_prefix'],inplace = True,axis = 1)
```

preprocessing project grade category

In [11]:

```
grade_categories = list(project_data['project_grade_category'].values)
# remove special characters from list of strings python: https://stackoverflow.com/a/47
301924/4084039

# https://www.geeksforgeeks.org/removing-stop-words-nltk-python/
# https://stackoverflow.com/questions/23669024/how-to-strip-a-specific-word-from-a-stri
ng
# https://stackoverflow.com/questions/8270092/remove-all-whitespace-in-a-string-in-pyth
on

grade_cat_list = []
for i in grade_categories:
    temp = ""
    if "-" in i:
        i = i.replace('-','_')
        i = i.replace(' ','_')
        temp +=i.strip()+' '#" abc ".strip() will return "abc", remove the trailing spa
ces
    grade_cat_list.append(temp.strip())

project_data['grade_category'] = grade_cat_list
project_data.drop(['project_grade_category'], axis=1, inplace=True)
```

In [12]:

```python
y = project_data['project_is_approved'].values
X = project_data.drop(['project_is_approved','Unnamed: 0','teacher_id','project_submitt
ed_datetime'], axis=1)
X.head(1)
```

Out[12]:

	id	school_state	project_title	project_essay_1	project_essay_2	project_ess
0	p253737	IN	Educational Support for English Learners at Home	My students are English learners that are work...	\"The limits of your language are the limits o...	NaN

Spliting the data into train and test

In [13]:

```python
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.33, stratify=y)
X_train, X_cv, y_train, y_cv = train_test_split(X_train, y_train, test_size=0.33, strat
ify=y_train)
```

Text preprocessing

For Essay

In [14]:

```python
# https://stackoverflow.com/a/47091490/4084039
import re

def decontracted(phrase):
    # specific
    phrase = re.sub(r"won't", "will not", phrase)
    phrase = re.sub(r"can\'t", "can not", phrase)

    # general
    phrase = re.sub(r"n\'t", " not", phrase)
    phrase = re.sub(r"\'re", " are", phrase)
    phrase = re.sub(r"\'s", " is", phrase)
    phrase = re.sub(r"\'d", " would", phrase)
    phrase = re.sub(r"\'ll", " will", phrase)
    phrase = re.sub(r"\'t", " not", phrase)
    phrase = re.sub(r"\'ve", " have", phrase)
    phrase = re.sub(r"\'m", " am", phrase)
    return phrase
```

In [15]:

```
sent = decontracted(project_data['essay'].values[20000])
print(sent)
print("="*50)
```

My kindergarten students have varied disabilities ranging from speech and language delays, cognitive delays, gross/fine motor delays, to autism. They are eager beavers and always strive to work their hardest working past their limitations. \r\n\r\nThe materials we have are the ones I seek out for my students. I teach in a Title I school where most of the students receive free or reduced price lunch. Despite their disabilities and limitations, my students love coming to school and come eager to learn and explore. Have you ever felt like you had ants in your pants and you needed to groove and move as you were in a meeting? This is how my kids feel all the time. The want to be able to move as they learn or so they say.Wobble chairs are the answer and I love then because they develop their core, which enhances gross motor and in Turn fine motor skills. \r\nThey also want to learn through games, my kids do not want to sit and do worksheets. They want to learn to count by jumping and playing. Physical engagement is the key to our success. The number toss and color and shape mats can make that happen. My students will forget they are doing work and just have the fun a 6 year old deserves.nannan
==

In [16]:

```
# \r \n \t remove from string python: http://texthandler.com/info/remove-line-breaks-python/
sent = sent.replace('\\r', ' ')
sent = sent.replace('\\"', ' ')
sent = sent.replace('\\n', ' ')
print(sent)
```

My kindergarten students have varied disabilities ranging from speech and language delays, cognitive delays, gross/fine motor delays, to autism. They are eager beavers and always strive to work their hardest working past their limitations.   The materials we have are the ones I seek out for my students. I teach in a Title I school where most of the students receive free or reduced price lunch. Despite their disabilities and limitations, my students love coming to school and come eager to learn and explore.Have you ever felt like you had ants in your pants and you needed to groove and move as you were in a meeting? This is how my kids feel all the time. The want to be able to move as they learn or so they say.Wobble chairs are the answer and I love then because they develop their core, which enhances gross motor and in Turn fine motor skills.   They also want to learn through games, my kids do not want to sit and do worksheets. They want to learn to count by jumping and playing. Physical engagement is the key to our success. The number toss and color and shape mats can make that happen. My students will forget they are doing work and just have the fun a 6 year old deserves.nannan

In [17]:

```
#remove spacial character: https://stackoverflow.com/a/5843547/4084039
sent = re.sub('[^A-Za-z0-9]+', ' ', sent)
print(sent)
```

My kindergarten students have varied disabilities ranging from speech and
language delays cognitive delays gross fine motor delays to autism They ar
e eager beavers and always strive to work their hardest working past their
limitations The materials we have are the ones I seek out for my students
I teach in a Title I school where most of the students receive free or red
uced price lunch Despite their disabilities and limitations my students lo
ve coming to school and come eager to learn and explore Have you ever felt
like you had ants in your pants and you needed to groove and move as you w
ere in a meeting This is how my kids feel all the time The want to be able
to move as they learn or so they say Wobble chairs are the answer and I lo
ve then because they develop their core which enhances gross motor and in
Turn fine motor skills They also want to learn through games my kids do no
t want to sit and do worksheets They want to learn to count by jumping and
playing Physical engagement is the key to our success The number toss and
color and shape mats can make that happen My students will forget they are
doing work and just have the fun a 6 year old deserves nannan

In [18]:

```
# https://gist.github.com/sebleier/554280
# we are removing the words from the stop words list: 'no', 'nor', 'not'
stopwords= ['i', 'me', 'my', 'myself', 'we', 'our', 'ours', 'ourselves', 'you', "you'r
e", "you've",\
            "you'll", "you'd", 'your', 'yours', 'yourself', 'yourselves', 'he', 'him',
'his', 'himself', \
            'she', "she's", 'her', 'hers', 'herself', 'it', "it's", 'its', 'itself', 't
hey', 'them', 'their',\
            'theirs', 'themselves', 'what', 'which', 'who', 'whom', 'this', 'that', "th
at'll", 'these', 'those', \
            'am', 'is', 'are', 'was', 'were', 'be', 'been', 'being', 'have', 'has', 'ha
d', 'having', 'do', 'does', \
            'did', 'doing', 'a', 'an', 'the', 'and', 'but', 'if', 'or', 'because', 'as'
, 'until', 'while', 'of', \
            'at', 'by', 'for', 'with', 'about', 'against', 'between', 'into', 'through'
, 'during', 'before', 'after',\
            'above', 'below', 'to', 'from', 'up', 'down', 'in', 'out', 'on', 'off', 'ov
er', 'under', 'again', 'further',\
            'then', 'once', 'here', 'there', 'when', 'where', 'why', 'how', 'all', 'an
y', 'both', 'each', 'few', 'more',\
            'most', 'other', 'some', 'such', 'only', 'own', 'same', 'so', 'than', 'too'
, 'very', \
            's', 't', 'can', 'will', 'just', 'don', "don't", 'should', "should've", 'no
w', 'd', 'll', 'm', 'o', 're', \
            've', 'y', 'ain', 'aren', "aren't", 'couldn', "couldn't", 'didn', "didn't",
'doesn', "doesn't", 'hadn',\
            "hadn't", 'hasn', "hasn't", 'haven', "haven't", 'isn', "isn't", 'ma', 'migh
tn', "mightn't", 'mustn',\
            "mustn't", 'needn', "needn't", 'shan', "shan't", 'shouldn', "shouldn't", 'w
asn', "wasn't", 'weren', "weren't", \
            'won', "won't", 'wouldn', "wouldn't"]
```

In [19]:

```python
# Combining all the above stundents
from tqdm import tqdm
preprocessed_train_essay = []
# tqdm is for printing the status bar
for sentance in tqdm(X_train['essay'].values):
    sent = decontracted(sentance)
    sent = sent.replace('\\r', ' ')
    sent = sent.replace('\\"', ' ')
    sent = sent.replace('\\n', ' ')
    sent = re.sub('[^A-Za-z0-9]+', ' ', sent)
    # https://gist.github.com/sebleier/554280
    sent = ' '.join(e for e in sent.split() if e.lower() not in stopwords)
    preprocessed_train_essay.append(sent.lower().strip())
```

```
100%|████████████████████████████████████████████████████████████
███████| 35912/35912 [00:37<00:00, 965.57it/s]
```

In [20]:

```python
# Combining all the above stundents
from tqdm import tqdm
preprocessed_cv_essay = []
# tqdm is for printing the status bar
for sentance in tqdm(X_cv['essay'].values):
    sent = decontracted(sentance)
    sent = sent.replace('\\r', ' ')
    sent = sent.replace('\\"', ' ')
    sent = sent.replace('\\n', ' ')
    sent = re.sub('[^A-Za-z0-9]+', ' ', sent)
    # https://gist.github.com/sebleier/554280
    sent = ' '.join(e for e in sent.split() if e.lower() not in stopwords)
    preprocessed_cv_essay.append(sent.lower().strip())
```

```
100%|████████████████████████████████████████████████████████████
███████| 17688/17688 [00:17<00:00, 998.56it/s]
```

In [21]:

```python
# Combining all the above stundents
from tqdm import tqdm
preprocessed_test_essay = []
# tqdm is for printing the status bar
for sentance in tqdm(X_test['essay'].values):
    sent = decontracted(sentance)
    sent = sent.replace('\\r', ' ')
    sent = sent.replace('\\"', ' ')
    sent = sent.replace('\\n', ' ')
    sent = re.sub('[^A-Za-z0-9]+', ' ', sent)
    # https://gist.github.com/sebleier/554280
    sent = ' '.join(e for e in sent.split() if e.lower() not in stopwords)
    preprocessed_test_essay.append(sent.lower().strip())
```

```
100%|████████████████████████████████████████████████████████████
███████| 26400/26400 [00:26<00:00, 986.50it/s]
```

For Title

In [22]:

```python
# Combining all the above stundents
from tqdm import tqdm
preprocessed_train_title = []
# tqdm is for printing the status bar
for sentance in tqdm(X_train['project_title'].values):
    sent = decontracted(sentance)
    sent = sent.replace('\\r', ' ')
    sent = sent.replace('\\"', ' ')
    sent = sent.replace('\\n', ' ')
    sent = re.sub('[^A-Za-z0-9]+', ' ', sent)
    # https://gist.github.com/sebleier/554280
    sent = ' '.join(e for e in sent.split() if e.lower() not in stopwords)
    preprocessed_train_title.append(sent.lower().strip())
```

```
100%|███████████████████████████████████████████████
████| 35912/35912 [00:01<00:00, 20932.96it/s]
```

In [23]:

```python
preprocessed_cv_title = []
# tqdm is for printing the status bar
for sentance in tqdm(X_cv['project_title'].values):
    sent = decontracted(sentance)
    sent = sent.replace('\\r', ' ')
    sent = sent.replace('\\"', ' ')
    sent = sent.replace('\\n', ' ')
    sent = re.sub('[^A-Za-z0-9]+', ' ', sent)
    # https://gist.github.com/sebleier/554280
    sent = ' '.join(e for e in sent.split() if e.lower() not in stopwords)
    preprocessed_cv_title.append(sent.lower().strip())
```

```
100%|███████████████████████████████████████████████
████| 17688/17688 [00:00<00:00, 21253.57it/s]
```

In [24]:

```python
# Combining all the above stundents
from tqdm import tqdm
preprocessed_test_title = []
# tqdm is for printing the status bar
for sentance in tqdm(X_test['project_title'].values):
    sent = decontracted(sentance)
    sent = sent.replace('\\r', ' ')
    sent = sent.replace('\\"', ' ')
    sent = sent.replace('\\n', ' ')
    sent = re.sub('[^A-Za-z0-9]+', ' ', sent)
    # https://gist.github.com/sebleier/554280
    sent = ' '.join(e for e in sent.split() if e.lower() not in stopwords)
    preprocessed_test_title.append(sent.lower().strip())
```

```
100%|███████████████████████████████████████████████
████| 26400/26400 [00:01<00:00, 20929.44it/s]
```

One hot encoding

Categories

In [25]:

```python
# we use count vectorizer to convert the values into one
from sklearn.feature_extraction.text import CountVectorizer
vec1 = CountVectorizer(vocabulary=list(sorted_cat_dict.keys()), binary=True)
X_train_cat_ohe = vec1.fit_transform(X_train['clean_categories'].values)
X_cv_cat_ohe = vec1.transform(X_cv['clean_categories'].values)
X_test_cat_ohe = vec1.transform(X_test['clean_categories'].values)

print("After Vectorizations")
print("Shape of X_train after one hot encodig ",X_train_cat_ohe.shape, y_train.shape)
print("Shape of X_cv after one hot encodig ",X_cv_cat_ohe.shape, y_cv.shape)
print("Shape of X_test after one hot encodig ",X_test_cat_ohe.shape, y_test.shape)
```

```
After Vectorizations
Shape of X_train after one hot encodig  (35912, 9) (35912,)
Shape of X_cv after one hot encodig  (17688, 9) (17688,)
Shape of X_test after one hot encodig  (26400, 9) (26400,)
```

Subcategories

In [26]:

```python
vec2 = CountVectorizer(vocabulary=list(sorted_sub_cat_dict.keys()), binary=True)
X_train_sub_cat_ohe = vec2.fit_transform(X_train['clean_subcategories'].values)
X_cv_sub_cat_ohe = vec2.transform(X_cv['clean_subcategories'].values)
X_test_sub_cat_ohe = vec2.transform(X_test['clean_subcategories'].values)

print("After Vectorizations")
print("Shape of X_train after one hot encodig ",X_train_sub_cat_ohe.shape, y_train.shape)
print("Shape of X_cv after one hot encodig ",X_cv_sub_cat_ohe.shape, y_cv.shape)
print("Shape of X_test after one hot encodig ",X_test_sub_cat_ohe.shape, y_test.shape)
```

```
After Vectorizations
Shape of X_train after one hot encodig  (35912, 30) (35912,)
Shape of X_cv after one hot encodig  (17688, 30) (17688,)
Shape of X_test after one hot encodig  (26400, 30) (26400,)
```

School state

In [27]:

```python
# count of all the words in corpus python: https://stackoverflow.com/a/22898595/4084039
from collections import Counter
my_counter = Counter()
for word in project_data['school_state'].values:
    my_counter.update(word.split())

# dict sort by value python: https://stackoverflow.com/a/613218/4084039
school_dict = dict(my_counter)
sorted_school_dict = dict(sorted(school_dict.items(), key=lambda kv: kv[1]))
```

In [28]:

```python
vec3 = CountVectorizer(vocabulary=list(sorted_school_dict.keys()), binary=True)
X_train_state_ohe = vec3.fit_transform(X_train['school_state'].values)
X_cv_state_ohe = vec3.transform(X_cv['school_state'].values)
X_test_state_ohe = vec3.transform(X_test['school_state'].values)

print("After vectorizations")
print("Shape of X_train after one hot encodig ",X_train_state_ohe.shape, y_train.shape)
print("Shape of X_cv after one hot encodig ",X_cv_state_ohe.shape, y_cv.shape)
print("Shape of X_test after one hot encodig ",X_test_state_ohe.shape, y_test.shape)
```

```
After vectorizations
Shape of X_train after one hot encodig  (35912, 51) (35912,)
Shape of X_cv after one hot encodig  (17688, 51) (17688,)
Shape of X_test after one hot encodig  (26400, 51) (26400,)
```

teacher prefix

In [29]:

```python
# count of all the words in corpus python: https://stackoverflow.com/a/22898595/4084039
from collections import Counter
my_counter = Counter()
for word in project_data['teachers_prefix'].values:
    my_counter.update(str(word).split())

# dict sort by value python: https://stackoverflow.com/a/613218/4084039
teacher_dict = dict(my_counter)
sorted_teacher_dict = dict(sorted(teacher_dict.items(), key=lambda kv: kv[1]))
```

In [30]:

```
vec4 = CountVectorizer(vocabulary=list(sorted_teacher_dict.keys()), binary=True)
X_train_teacher_ohe = vec4.fit_transform(X_train['teachers_prefix'].values) # fit has t
o happen only on train data
X_cv_teacher_ohe = vec4.transform(X_cv['teachers_prefix'].values)
X_test_teacher_ohe = vec4.transform(X_test['teachers_prefix'].values)

print("After vectorizations")
print("Shape of X_train after one hot encodig ",X_train_teacher_ohe.shape, y_train.shap
e)
print("Shape of X_cv after one hot encodig ",X_cv_teacher_ohe.shape, y_cv.shape)
print("Shape of X_test after one hot encodig ",X_test_teacher_ohe.shape, y_test.shape)
```

```
After vectorizations
Shape of X_train after one hot encodig  (35912, 4) (35912,)
Shape of X_cv after one hot encodig  (17688, 4) (17688,)
Shape of X_test after one hot encodig  (26400, 4) (26400,)
```

Project grade category

In [31]:

```
# count of all the words in corpus python: https://stackoverflow.com/a/22898595/4084039
from collections import Counter
my_counter = Counter()
for word in project_data['grade_category'].values:
    my_counter.update(str(word).split())

# dict sort by value python: https://stackoverflow.com/a/613218/4084039
grade_dict = dict(my_counter)
sorted_grade_dict = dict(sorted(grade_dict.items(), key=lambda kv: kv[1]))
```

In [32]:

```
vec5 = CountVectorizer(vocabulary=list(sorted_grade_dict.keys()), binary=True)
X_train_grade_ohe = vec5.fit_transform(X_train['grade_category'].values) # fit has to h
appen only on train data
X_cv_grade_ohe = vec5.transform(X_cv['grade_category'].values)
X_test_grade_ohe = vec5.transform(X_test['grade_category'].values)
```

In [33]:

```
print('After Vectorizations')
print("Shape of X_train after one hot encodig ",X_train_grade_ohe.shape, y_train.shape)
print("Shape of X_cv after one hot encodig ",X_cv_grade_ohe.shape, y_cv.shape)
print("Shape of X_test after one hot encodig ",X_test_grade_ohe.shape, y_test.shape)
```

```
After Vectorizations
Shape of X_train after one hot encodig  (35912, 4) (35912,)
Shape of X_cv after one hot encodig  (17688, 4) (17688,)
Shape of X_test after one hot encodig  (26400, 4) (26400,)
```

Bag of words on essay

In [34]:

```
vec6 = CountVectorizer(min_df=10)

# we use the fitted CountVectorizer to convert the text to vector
X_train_essay_bow = vec6.fit_transform(preprocessed_train_essay)# fit has to happen onl
y on train data
X_cv_essay_bow = vec6.transform(preprocessed_cv_essay)
X_test_essay_bow = vec6.transform(preprocessed_test_essay)

print("After vectorizations")
print(X_train_essay_bow.shape, y_train.shape)
print(X_cv_essay_bow.shape, y_cv.shape)
print(X_test_essay_bow.shape, y_test.shape)
```

```
After vectorizations
(35912, 10608) (35912,)
(17688, 10608) (17688,)
(26400, 10608) (26400,)
```

Bag of words on title

In [35]:

```
from sklearn.feature_extraction.text import TfidfVectorizer
vec7 = CountVectorizer(min_df=10)

# fit has to happen only on train data
# we use the fitted CountVectorizer to convert the text to vector
X_train_title_bow = vec7.fit_transform(preprocessed_train_title)
X_cv_title_bow = vec7.transform(preprocessed_cv_title)
X_test_title_bow = vec7.transform(preprocessed_test_title)

print("After vectorizations")
print(X_train_title_bow.shape, y_train.shape)
print(X_cv_title_bow.shape, y_cv.shape)
print(X_test_title_bow.shape, y_test.shape)
```

```
After vectorizations
(35912, 1646) (35912,)
(17688, 1646) (17688,)
(26400, 1646) (26400,)
```

tfidf on essay

In [36]:

```python
from sklearn.feature_extraction.text import TfidfVectorizer
vec8 = TfidfVectorizer(min_df=10)

# fit has to happen only on train data
X_train_ess_tfidf = vec8.fit_transform(preprocessed_train_essay)

# we use the fitted Tfidf Vectorizer to convert the text to vector
X_cv_ess_tfidf = vec8.transform(preprocessed_cv_essay)
X_test_ess_tfidf = vec8.transform(preprocessed_test_essay)

print("After vectorizations")
print(X_train_ess_tfidf.shape, y_train.shape)
print(X_cv_ess_tfidf.shape, y_cv.shape)
print(X_test_ess_tfidf.shape, y_test.shape)
```

```
After vectorizations
(35912, 10608) (35912,)
(17688, 10608) (17688,)
(26400, 10608) (26400,)
```

tfidf on title

In [37]:

```python
vec9 = TfidfVectorizer(min_df=10)
X_train_title_tfidf = vec9.fit_transform(preprocessed_train_title)

# we use the fitted Tfidf Vectorizer to convert the text to vector
X_cv_title_tfidf = vec9.transform(preprocessed_cv_title)
X_test_title_tfidf = vec9.transform(preprocessed_test_title)

print("After vectorizations")
print(X_train_title_tfidf.shape, y_train.shape)
print(X_cv_title_tfidf.shape, y_cv.shape)
print(X_test_title_tfidf.shape, y_test.shape)
```

```
After vectorizations
(35912, 1646) (35912,)
(17688, 1646) (17688,)
(26400, 1646) (26400,)
```

Loading glove file

In [38]:

```python
# Reading glove vectors in python: https://stackoverflow.com/a/38230349/4084039
def loadGloveModel(gloveFile):
    print ("Loading Glove Model")
    f = open(gloveFile,'r', encoding="utf8")
    model = {}
    for line in tqdm(f):
        splitLine = line.split()
        word = splitLine[0]
        embedding = np.array([float(val) for val in splitLine[1:]])
        model[word] = embedding
    print ("Done.",len(model)," words loaded!")
    return model
model = loadGloveModel('glove.42B.300d.txt')

# ============================
# Output:

# Loading Glove Model
# 1917495it [06:32, 4879.69it/s]
# Done. 1917495  words loaded!


# ============================
```

336it [00:00, 3287.52it/s]

Loading Glove Model

1917494it [08:53, 3591.51it/s]

Done. 1917494 words loaded!

In [39]:

```python
# stronging variables into pickle files python: http://www.jessicayung.com/how-to-use-p
ickle-to-save-and-load-variables-in-python/
# make sure you have the glove_vectors file
with open('glove_vectors', 'rb') as f:
    model = pickle.load(f)
    glove_words =  set(model.keys())
```

Using Pretrained Models: TFIDF weighted W2V

on essay

In [40]:

```python
# S = ["abc def pqr", "def def def abc", "pqr pqr def"]
tfidf_model = TfidfVectorizer()
tfidf_model.fit(preprocessed_train_essay)
# we are converting a dictionary with word as a key, and the idf as a value
dictionary = dict(zip(tfidf_model.get_feature_names(), list(tfidf_model.idf_)))
tfidf_words_ess = set(tfidf_model.get_feature_names())
```

In [41]:

```python
# compute average word2vec for each review.
def func(wordlist):

    train_tfidf_w2v_vectors = []; # the avg-w2v for each sentence/review is stored in t
his list
    for sentence in tqdm(wordlist): # for each review/sentence
        vector = np.zeros(300) # as word vectors are of zero length     # we are taking
 the 300 dimensions   very large
        cnt_words =0; # num of words with a valid vector in the sentence/review
        for word in sentence.split(): # for each word in a review/sentence
            if word in glove_words:
                vector += model[word]
                cnt_words += 1
        if cnt_words != 0:
            vector /= cnt_words
        train_tfidf_w2v_vectors.append(vector)

    print(len(train_tfidf_w2v_vectors))
    print(len(train_tfidf_w2v_vectors[0]))
    return train_tfidf_w2v_vectors
```

In [42]:

```python
#For essays
X_train_tfidf_w2v_ess =func(preprocessed_train_essay)
X_test_tfidf_w2v_ess =func(preprocessed_test_essay)
X_cv_tfidf_w2v_ess =func(preprocessed_cv_essay)
```

```
100%|████████████████████████████████████████|
██████| 35912/35912 [00:19<00:00, 1883.36it/s]
  1%|█
| 364/26400 [00:00<00:15, 1714.69it/s]

35912
300

100%|████████████████████████████████████████|
██████| 26400/26400 [00:13<00:00, 1904.15it/s]
  2%|██
| 365/17688 [00:00<00:09, 1827.54it/s]

26400
300

100%|████████████████████████████████████████|
██████| 17688/17688 [00:09<00:00, 1914.54it/s]

17688
300
```

on title

In [43]:

```
# S = ["abc def pqr", "def def def abc", "pqr pqr def"]
tfidf_model = TfidfVectorizer()
tfidf_model.fit(preprocessed_train_title)
# we are converting a dictionary with word as a key, and the idf as a value
dictionary = dict(zip(tfidf_model.get_feature_names(), list(tfidf_model.idf_)))
tfidf_words_title = set(tfidf_model.get_feature_names())
```

In [44]:

```
# For Titles
X_train_tfidf_w2v_title=func(preprocessed_train_title)
X_test_tfidf_w2v_title=func(preprocessed_test_title)
X_cv_tfidf_w2v_title=func(preprocessed_cv_title)
```

```
100%|████████████████████████████████████████████████████
████| 35912/35912 [00:01<00:00, 32056.95it/s]
  8%|█████
| 2188/26400 [00:00<00:01, 21043.56it/s]

35912
300

100%|████████████████████████████████████████████████████
████| 26400/26400 [00:00<00:00, 30007.55it/s]
 15%|██████████
| 2603/17688 [00:00<00:00, 25034.91it/s]

26400
300

100%|████████████████████████████████████████████████████
████| 17688/17688 [00:00<00:00, 29885.83it/s]

17688
300
```

price

In [45]:

```
# https://stackoverflow.com/questions/22407798/how-to-reset-a-dataframes-indexes-for-al
l-groups-in-one-step
price_data = resource_data.groupby('id').agg({'price':'sum', 'quantity':'sum'}).reset_i
ndex()
price_data.head()
```

Out[45]:

	id	price	quantity
0	p000027	782.13	15
1	p000031	357.98	2
2	p000052	114.98	2
3	p000147	13.13	25
4	p000153	304.93	41

In [46]:

```python
project_data = pd.merge(project_data, price_data, on='id', how='left')
project_data.head()
```

Out[46]:

	Unnamed: 0	id	teacher_id	school_state	project_su
0	160221	p253737	c90749f5d961ff158d4b4d1e7dc665fc	IN	2016-12-05
1	140945	p258326	897464ce9ddc600bced1151f324dd63a	FL	2016-10-25
2	21895	p182444	3465aaf82da834c0582ebd0ef8040ca0	AZ	2016-08-31
3	45	p246581	f3cb9bffbba169bef1a77b243e620b60	KY	2016-10-06
4	172407	p104768	be1f7507a41f8479dc06f047086a39ec	TX	2016-07-11

In [47]:

```python
X_train =pd.merge(X_train,price_data, how ='left', on = 'id')
X_cv =pd.merge(X_cv,price_data, how ='left', on ='id')
X_test = pd.merge(X_test,price_data,how ='left',on='id')
```

In [48]:

```python
# https://stackoverflow.com/questions/32617811/imputation-of-missing-values-for-categor
ies-in-pandas
#replacing nan with most frequently occuring element
X_train['price'] = X_train['price'].fillna(X_train['price'].mode().iloc[0])
X_cv['price'] = X_cv['price'].fillna(X_train['price'].mode().iloc[0])
X_test['price'] = X_test['price'].fillna(X_test['price'].mode().iloc[0])
print(X_train['price'].isnull().sum())
print(X_cv['price'].isnull().sum())
print(X_test['price'].isnull().sum())
```

```
0
0
0
```

Standardizing price, quantity, previous projects

In [49]:

```python
# price
# check this one: https://www.youtube.com/watch?v=0HOqOcln3Z4&t=530s
# standardization sklearn: https://scikit-learn.org/stable/modules/generated/sklearn.pr
eprocessing.StandardScaler.html
from sklearn.preprocessing import StandardScaler
from sklearn.preprocessing import MinMaxScaler
from sklearn.preprocessing import Normalizer
# price_standardized = standardScalar.fit(project_data['price'].values)
# this will rise the error
# ValueError: Expected 2D array, got 1D array instead: array=[725.05 213.03 329.   ...
 399.   287.73   5.5 ].
# Reshape your data either using array.reshape(-1, 1)

price_scalar = Normalizer()

X_train_price_stndrd = price_scalar.fit_transform(X_train['price'].values.reshape(1,-1
))
X_cv_price_stndrd = price_scalar.transform(X_cv['price'].values.reshape(1,-1))
X_test_price_stndrd = price_scalar.transform(X_test['price'].values.reshape(1,-1))
```

In [50]:

```python
X_train_price_stndrd = X_train_price_stndrd.reshape(-1,1)
X_cv_price_stndrd = X_cv_price_stndrd.reshape(-1,1)
X_test_price_stndrd = X_test_price_stndrd.reshape(-1,1)
```

In [51]:

```
X_train_price_stndrd
```

Out[51]:

```
array([[0.00422366],
       [0.00422366],
       [0.00422366],
       ...,
       [0.00422366],
       [0.00422366],
       [0.00422366]])
```

In [52]:

```
X_cv_price_stndrd
```

Out[52]:

```
array([[0.00634511],
       [0.00634511],
       [0.00634511],
       ...,
       [0.00634511],
       [0.00634511],
       [0.00634511]])
```

In [53]:

```
X_test_price_stndrd
```

Out[53]:

```
array([[0.00594676],
       [0.00594676],
       [0.00594676],
       ...,
       [0.00594676],
       [0.00594676],
       [0.00594676]])
```

quantity

In [54]:

```
# https://stackoverflow.com/questions/32617811/imputation-of-missing-values-for-categor
ies-in-pandas
#replacing nan with most frequently occuring element

X_train['quantity'] = X_train['quantity'].fillna(X_train['quantity'].mode().iloc[0])
X_cv['quantity'] = X_cv['quantity'].fillna(X_cv['quantity'].mode().iloc[0])
X_test['quantity'] = X_test['quantity'].fillna(X_test['quantity'].mode().iloc[0])
```

In [55]:

```
# quantity
quantity_scalar = Normalizer()
X_train_quantity_stndrd = quantity_scalar.fit_transform(X_train['quantity'].values.resh
ape(-1,1))
X_cv_quantity_stndrd = quantity_scalar.transform(X_cv['quantity'].values.reshape(-1,1))
X_test_quantity_stndrd = quantity_scalar.transform(X_test['quantity'].values.reshape(-1
,1))
```

In [56]:

```
X_train_quantity_stndrd = X_train_quantity_stndrd.reshape(-1,1)
X_cv_quantity_stndrd = X_cv_quantity_stndrd.reshape(-1,1)
X_test_quantity_stndrd = X_test_quantity_stndrd.reshape(-1,1)
```

In [57]:

```
X_train_quantity_stndrd
```

Out[57]:

```
array([[1.],
       [1.],
       [1.],
       ...,
       [1.],
       [1.],
       [1.]])
```

In [58]:

```
X_cv_quantity_stndrd
```

Out[58]:

```
array([[1.],
       [1.],
       [1.],
       ...,
       [1.],
       [1.],
       [1.]])
```

In [59]:

```
X_test_quantity_stndrd
```

Out[59]:

```
array([[1.],
       [1.],
       [1.],
       ...,
       [1.],
       [1.],
       [1.]])
```

In [60]:

```
# https://stackoverflow.com/questions/32617811/imputation-of-missing-values-for-categor
ies-in-pandas
#replacing nan with most frequently occuring element

X_train['teacher_number_of_previously_posted_projects'] = X_train['teacher_number_of_pr
eviously_posted_projects'].fillna(X_train['teacher_number_of_previously_posted_project
s'].mode().iloc[0])
X_cv['teacher_number_of_previously_posted_projects'] = X_cv['teacher_number_of_previous
ly_posted_projects'].fillna(X_cv['teacher_number_of_previously_posted_projects'].mode()
.iloc[0])
X_test['teacher_number_of_previously_posted_projects'] = X_test['teacher_number_of_prev
iously_posted_projects'].fillna(X_test['teacher_number_of_previously_posted_projects'].
mode().iloc[0])
```

In [61]:

```
# previous_year_projects
price_scalar.fit(X_train['teacher_number_of_previously_posted_projects'].values.reshape
(-1,1)) # finding the mean and standard deviation of this data
#print(f"Mean : {price_scalar.mean_[0]}, Standard deviation : {np.sqrt(price_scalar.var
_[0])}")
# Now standardize the data with above mean and variance.
X_train_prev_proj_stndrd =price_scalar.transform(X_train['teacher_number_of_previously_
posted_projects'].values.reshape(-1,1))
# Now standardize the data with above mean and variance.
X_test_prev_proj_stndrd =price_scalar.transform(X_test['teacher_number_of_previously_po
sted_projects'].values.reshape(-1,1))
# Now standardize the data with above mean and variance.
X_cv_prev_proj_stndrd = price_scalar.transform(X_cv['teacher_number_of_previously_poste
d_projects'].values.reshape(-1,1))
```

In [62]:

```
X_train_prev_proj_stndrd = X_train_prev_proj_stndrd.reshape(-1,1)
X_cv_prev_proj_stndrd = X_cv_prev_proj_stndrd.reshape(-1,1)
X_test_prev_proj_stndrd = X_test_prev_proj_stndrd.reshape(-1,1)
```

In [63]:

```
X_train_prev_proj_stndrd
```

Out[63]:

```
array([[1.],
       [1.],
       [0.],
       ...,
       [1.],
       [1.],
       [1.]])
```

In [64]:

```
X_cv_prev_proj_stndrd
```

Out[64]:

```
array([[1.],
       [0.],
       [1.],
       ...,
       [1.],
       [1.],
       [1.]])
```

In [65]:

```
X_test_prev_proj_stndrd
```

Out[65]:

```
array([[1.],
       [0.],
       [1.],
       ...,
       [1.],
       [0.],
       [1.]])
```

Number of words in title

In [66]:

```
# For train data
title_length_train=[]
for i in range(0,len(X_train)):
    title_length_train.append(len(X_train["project_title"][i].split()))

title_length_train=np.array(title_length_train)
X_train['title_length'] = title_length_train

#for test data titles
title_length_test=[]
for i in range(0,len(X_test)):
    title_length_test.append(len(X_test["project_title"][i].split()))
X_test['title_length'] = title_length_test

title_length_test=np.array(title_length_test)

#for cv data titles
title_length_cv=[]
for i in range(0,len(X_cv)):
    title_length_cv.append(len(X_cv["project_title"][i].split()))

title_length_cv=np.array(title_length_cv)
X_cv['title_length'] = title_length_cv
```

In [67]:

```python
# title
title_scalar = StandardScaler()
X_train_title_stndrd = title_scalar.fit_transform(X_train['title_length'].values.reshape(-1,1))
X_cv_title_stndrd = title_scalar.transform(X_cv['title_length'].values.reshape(-1,1))
X_test_title_stndrd = title_scalar.transform(X_test['title_length'].values.reshape(-1,1))
```

Number of words in essay

In [68]:

```python
# For train data
essay_length_train=[]
for i in range(0,len(X_train)):
    essay_length_train.append(len(X_train["essay"][i].split()))

essay_length_train=np.array(essay_length_train)
X_train['essay_length'] = essay_length_train

#for test data essays
essay_length_test=[]
for i in range(0,len(X_test)):
    essay_length_test.append(len(X_test["essay"][i].split()))
X_test['essay_length'] = essay_length_test

essay_length_test=np.array(essay_length_test)

#for cv data essays
essay_length_cv=[]
for i in range(0,len(X_cv)):
    essay_length_cv.append(len(X_cv["essay"][i].split()))

essay_length_cv=np.array(essay_length_cv)
X_cv['essay_length'] = essay_length_cv
```

In [69]:

```python
# essay
essay_scalar = StandardScaler()
X_train_essay_stndrd = essay_scalar.fit_transform(X_train['essay_length'].values.reshape(-1,1))
X_cv_essay_stndrd = essay_scalar.transform(X_cv['essay_length'].values.reshape(-1,1))
X_test_essay_stndrd = essay_scalar.transform(X_test['essay_length'].values.reshape(-1,1))
```

Sentimental scores

In [70]:

```python
# http://t-redactyl.io/blog/2017/04/applying-sentiment-analysis-with-vader-and-the-twit
ter-api.html
import nltk
from nltk.sentiment.vader import SentimentIntensityAnalyzer

tr_compound = []
tr_pos = []
tr_neu = []
tr_neg = []

analyzer = SentimentIntensityAnalyzer()

for i in tqdm(X_train['essay']):
    tr_pos.append(analyzer.polarity_scores(i)['pos'])
    tr_neg.append(analyzer.polarity_scores(i)['neg'])
    tr_neu.append(analyzer.polarity_scores(i)['neu'])
    tr_compound.append(analyzer.polarity_scores(i)['compound'])
X_train['pos'] = tr_pos
X_train['neg'] = tr_neg
X_train['neu'] = tr_neu
X_train['comp'] = tr_compound
```

C:\Users\SUBHODAYA KUMAR\Anaconda3\lib\site-packages\nltk\twitter__init_
_.py:20: UserWarning:

The twython library has not been installed. Some functionality from the tw
itter package will not be available.

100%|███
███████| 35912/35912 [16:55<00:00, 35.35it/s]

In [71]:

```python
# http://t-redactyl.io/blog/2017/04/applying-sentiment-analysis-with-vader-and-the-twit
ter-api.html
import nltk
from nltk.sentiment.vader import SentimentIntensityAnalyzer

ts_compound = []
ts_pos = []
ts_neu = []
ts_neg = []

analyzer = SentimentIntensityAnalyzer()

for i in tqdm(X_test['essay']):
    ts_pos.append(analyzer.polarity_scores(i)['pos'])
    ts_neg.append(analyzer.polarity_scores(i)['neg'])
    ts_neu.append(analyzer.polarity_scores(i)['neu'])
    ts_compound.append(analyzer.polarity_scores(i)['compound'])
X_test['pos'] = ts_pos
X_test['neg'] = ts_neg
X_test['neu'] = ts_neu
X_test['comp'] = ts_compound
```

100%|███
███████| 26400/26400 [09:56<00:00, 44.27it/s]

In [72]:

```python
cv_compound = []
cv_pos = []
cv_neu = []
cv_neg = []
for i in tqdm(X_cv['essay']):
    cv_pos.append(analyzer.polarity_scores(i)['pos'])
    cv_neg.append(analyzer.polarity_scores(i)['neg'])
    cv_neu.append(analyzer.polarity_scores(i)['neu'])
    cv_compound.append(analyzer.polarity_scores(i)['compound'])
X_cv['pos'] = cv_pos
X_cv['neg'] = cv_neg
X_cv['neu'] = cv_neu
X_cv['comp'] = cv_compound
```

```
100%|████████████████████████████████████████████████████████████████
██████| 17688/17688 [06:40<00:00, 44.20it/s]
```

In [73]:

```python
# positive
pos_scalar = StandardScaler()
X_train_pos_stndrd = pos_scalar.fit_transform(X_train['pos'].values.reshape(-1,1))
X_cv_pos_stndrd = pos_scalar.transform(X_cv['pos'].values.reshape(-1,1))
X_test_pos_stndrd = pos_scalar.transform(X_test['pos'].values.reshape(-1,1))
```

In [74]:

```python
# negative
neg_scalar = StandardScaler()
X_train_neg_stndrd = neg_scalar.fit_transform(X_train['neg'].values.reshape(-1,1))
X_cv_neg_stndrd = neg_scalar.transform(X_cv['neg'].values.reshape(-1,1))
X_test_neg_stndrd = neg_scalar.transform(X_test['neg'].values.reshape(-1,1))
```

In [75]:

```python
# neutral
neu_scalar = StandardScaler()
X_train_neu_stndrd = neu_scalar.fit_transform(X_train['neu'].values.reshape(-1,1))
X_cv_neu_stndrd = neu_scalar.transform(X_cv['neu'].values.reshape(-1,1))
X_test_neu_stndrd = neu_scalar.transform(X_test['neu'].values.reshape(-1,1))
```

In [76]:

```python
# compound
comp_scalar = StandardScaler()
X_train_comp_stndrd = comp_scalar.fit_transform(X_train['comp'].values.reshape(-1,1))
X_cv_comp_stndrd = comp_scalar.transform(X_cv['comp'].values.reshape(-1,1))
X_test_comp_stndrd = comp_scalar.transform(X_test['comp'].values.reshape(-1,1))
```

In [77]:

```
X_train.head()
```

Out[77]:

	id	school_state	project_title	project_essay_1	project_essay_2	project_
0	p166185	TX	POP POP IT'S SHOW TIME!!!	My students are 21st century learners that mea...	Help!!!!! \r\nWe are in desperate need of a sm...	NaN
1	p206708	FL	Mindful Thinking Mosaic Art Garden	With the new language our district wants to sp...	My donors choose Mosaic stepping stone project...	NaN
2	p051600	IL	Fun and Flexible Seating for a Special Educati...	I am a Special Education teacher with about 12...	The use of flexible seating options will not o...	NaN
3	p139071	CT	NO MORE DUSTY CHALKBOARD!	A typical day in my classroom is a busy one fu...	My students are a wonderful bunch of First Gra...	In my cla everyone teacher. Student..
4	p201597	OK	Movement and Learning \"R\" 1!	My students have many things in common and th...	In my years of teaching, I have noticed more a...	NaN

5 rows × 22 columns
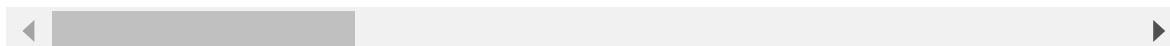
In [78]:

```
print(X_train_cat_ohe.shape)
print(X_train_sub_cat_ohe.shape)
print(X_train_state_ohe.shape)
print(X_train_teacher_ohe.shape)
print(X_train_grade_ohe.shape)
print(X_train_ess_tfidf.shape)
print(X_train_title_tfidf.shape)
print(X_train_price_stndrd.shape)
print(X_train_quantity_stndrd.shape)
print(X_train_prev_proj_stndrd.shape)
print(X_train_essay_stndrd.shape)
print(X_train_title_stndrd.shape)
print(X_train_pos_stndrd.shape)
print(X_train_neg_stndrd.shape)
print(X_train_neu_stndrd.shape)
print(X_train_comp_stndrd.shape)
```

```
(35912, 9)
(35912, 30)
(35912, 51)
(35912, 4)
(35912, 4)
(35912, 10608)
(35912, 1646)
(35912, 1)
(35912, 1)
(35912, 1)
(35912, 1)
(35912, 1)
(35912, 1)
(35912, 1)
(35912, 1)
(35912, 1)
```

Concatenating all the features

In [79]:

```
from scipy.sparse import hstack
# with the same hstack function we are concatinating a sparse matrix and a dense matirx
X_train_tfidf = hstack((X_train_title_tfidf,X_train_ess_tfidf,X_train_teacher_ohe,X_tra
in_cat_ohe,X_train_sub_cat_ohe, X_train_grade_ohe,
                        X_train_state_ohe,X_train_price_stndrd, X_train_quantity_stndrd
, X_train_prev_proj_stndrd,
                        X_train_pos_stndrd, X_train_neg_stndrd, X_train_neu_stndrd, X_t
rain_comp_stndrd, X_train_essay_stndrd, X_train_title_stndrd)).tocsr()
```

In [80]:

```
X_train_tfidf
```

Out[80]:

```
<35912x12361 sparse matrix of type '<class 'numpy.float64'>'
        with 4010821 stored elements in Compressed Sparse Row format>
```

In [81]:

```python
from scipy.sparse import hstack
# with the same hstack function we are concatinating a sparse matrix and a dense matirx
X_cv_tfidf = hstack((X_cv_title_tfidf,X_cv_ess_tfidf,X_cv_teacher_ohe,X_cv_cat_ohe,X_cv
_sub_cat_ohe,X_cv_grade_ohe,
                    X_cv_state_ohe,X_cv_price_stndrd, X_cv_quantity_stndrd, X_cv_prev_
proj_stndrd,
                    X_cv_pos_stndrd, X_cv_neg_stndrd, X_cv_neu_stndrd, X_cv_comp_stndr
d, X_cv_essay_stndrd, X_cv_title_stndrd)).tocsr()
```

In [82]:

```python
from scipy.sparse import hstack
# with the same hstack function we are concatinating a sparse matrix and a dense matirx
X_test_tfidf = hstack((X_test_title_tfidf,X_test_ess_tfidf,X_test_teacher_ohe,X_test_ca
t_ohe,X_test_sub_cat_ohe,
                    X_test_grade_ohe,X_test_state_ohe,X_test_price_stndrd, X_test_qua
ntity_stndrd, X_test_prev_proj_stndrd,
                    X_test_pos_stndrd, X_test_neg_stndrd, X_test_neu_stndrd, X_test_
comp_stndrd, X_test_essay_stndrd, X_test_title_stndrd)).tocsr()
```

In [83]:

```python
print('Final data matrix')
print(X_train_tfidf.shape, y_train.shape)
print(X_cv_tfidf.shape, y_cv.shape)
print(X_test_tfidf.shape, y_test.shape)
print("="*100)
```

```
Final data matrix
(35912, 12361) (35912,)
(17688, 12361) (17688,)
(26400, 12361) (26400,)
========================================================================
==========================
```

In [84]:

```python
from scipy.sparse import hstack
# with the same hstack function we are concatinating a sparse matrix and a dense matirx
X_train_tfidf_w2v = hstack((X_train_tfidf_w2v_ess,X_train_tfidf_w2v_title,X_train_teach
er_ohe,X_train_cat_ohe,X_train_sub_cat_ohe,
                    X_train_grade_ohe,X_train_state_ohe,X_train_price_stndrd, X_train
_quantity_stndrd, X_train_prev_proj_stndrd,
                            X_train_pos_stndrd, X_train_neg_stndrd, X_train_neu_stndrd,
X_train_comp_stndrd, X_train_essay_stndrd, X_train_title_stndrd)).tocsr().toarray()
```

In [85]:

```
from scipy.sparse import hstack
# with the same hstack function we are concatinating a sparse matrix and a dense matirx
X_cv_tfidf_w2v = hstack((X_cv_tfidf_w2v_ess,X_cv_tfidf_w2v_title,X_cv_teacher_ohe,X_cv_
cat_ohe,X_cv_sub_cat_ohe,
                    X_cv_grade_ohe,X_cv_state_ohe,X_cv_price_stndrd, X_cv_quantity_st
ndrd, X_cv_prev_proj_stndrd,
                        X_cv_pos_stndrd, X_cv_neg_stndrd, X_cv_neu_stndrd, X_cv_comp_st
ndrd, X_cv_essay_stndrd, X_cv_title_stndrd)).tocsr()
```

In [86]:

```
from scipy.sparse import hstack
# with the same hstack function we are concatinating a sparse matrix and a dense matirx
X_test_tfidf_w2v = hstack((X_test_tfidf_w2v_ess,X_test_tfidf_w2v_title,X_test_teacher_o
he,X_test_cat_ohe,X_test_sub_cat_ohe,
                    X_test_grade_ohe,X_test_state_ohe,X_test_price_stndrd, X_test_qua
ntity_stndrd, X_test_prev_proj_stndrd,
                        X_test_pos_stndrd, X_test_neg_stndrd, X_test_neu_stndrd, X_te
st_comp_stndrd, X_test_essay_stndrd, X_test_title_stndrd)).tocsr()
```

In [87]:

```
print('Final data matrix')
print(X_train_tfidf_w2v.shape, y_train.shape)
print(X_cv_tfidf_w2v.shape, y_cv.shape)
print(X_test_tfidf_w2v.shape, y_test.shape)
print("="*100)
```

```
Final data matrix
(35912, 707) (35912,)
(17688, 707) (17688,)
(26400, 707) (26400,)
================================================================================
=========================
```

DT on tfidf featurization

In [88]:

```python
def batch_predict(clf, data):
    # roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates
 of the positive class
    # not the predicted outputs

    y_data_pred = []
    tr_loop = data.shape[0] - data.shape[0]%1000
    # consider you X_tr shape is 49041, then your tr_loop will be 49041 - 49041%1000 =
49000
    # in this for loop we will iterate unti the last 1000 multiplier
    for i in range(0, tr_loop, 1000):
        y_data_pred.extend(clf.predict_proba(data[i:i+1000])[:,1])
    # we will be predicting for the last data points
    if data.shape[0]%1000 !=0:
        y_data_pred.extend(clf.predict_proba(data[tr_loop:])[:,1])

    return y_data_pred
```

In [89]:

```python
import matplotlib.pyplot as plt
from sklearn.tree import DecisionTreeClassifier
from sklearn.model_selection import RandomizedSearchCV
from sklearn.model_selection import GridSearchCV
from sklearn.model_selection import cross_val_score
from sklearn.metrics import roc_auc_score
import math

random_grid = {'max_depth': [1,5,10,50],
               'min_samples_split': [5,10,100,500]}

dt = DecisionTreeClassifier( class_weight='balanced')
clf = GridSearchCV(estimator = dt, param_grid = random_grid, cv = 10, return_train_scor
e=True, scoring = 'roc_auc', n_jobs = -1,verbose =2)
clf.fit(X_train_tfidf, y_train)
```

```
Fitting 10 folds for each of 16 candidates, totalling 160 fits

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 4 concurrent worker
s.
[Parallel(n_jobs=-1)]: Done  33 tasks      | elapsed:   23.5s
[Parallel(n_jobs=-1)]: Done 160 out of 160 | elapsed: 16.6min finished
```

Out[89]:

```
GridSearchCV(cv=10, error_score=nan,
             estimator=DecisionTreeClassifier(ccp_alpha=0.0,
                                              class_weight='balanced',
                                              criterion='gini', max_depth=
None,
                                              max_features=None,
                                              max_leaf_nodes=None,
                                              min_impurity_decrease=0.0,
                                              min_impurity_split=None,
                                              min_samples_leaf=1,
                                              min_samples_split=2,
                                              min_weight_fraction_leaf=0.
0,
                                              presort='deprecated',
                                              random_state=None,
                                              splitter='best'),
             iid='deprecated', n_jobs=-1,
             param_grid={'max_depth': [1, 5, 10, 50],
                         'min_samples_split': [5, 10, 100, 500]},
             pre_dispatch='2*n_jobs', refit=True, return_train_score=True,
             scoring='roc_auc', verbose=2)
```

In [90]:

```python
clf.best_params_
```

Out[90]:

```
{'max_depth': 10, 'min_samples_split': 500}
```

In [91]:

```
train_auc= clf.cv_results_['mean_train_score']
train_auc
```

Out[91]:

```
array([0.55128562, 0.55128562, 0.55128562, 0.55128562, 0.629879  ,
       0.62982441, 0.62892896, 0.62512439, 0.72851274, 0.72691312,
       0.71108514, 0.6876327 , 0.98570471, 0.97930134, 0.91732712,
       0.82071625])
```

In [92]:

```
cv_auc = clf.cv_results_['mean_test_score']
cv_auc
```

Out[92]:

```
array([0.5479956 , 0.5479956 , 0.5479956 , 0.5479956 , 0.59993609,
       0.59937512, 0.60000247, 0.60070297, 0.60886183, 0.60973547,
       0.61026574, 0.61936263, 0.54870309, 0.55252687, 0.56896251,
       0.60071749])
```

In [93]:

```
import plotly.offline as offline
import plotly.graph_objs as go
offline.init_notebook_mode()
import numpy as np
```

In [94]:

```
max_scores = pd.DataFrame(clf.cv_results_).groupby(['param_min_samples_split', 'param_m
ax_depth']).max().unstack()[['mean_test_score', 'mean_train_score']]
fig, ax = plt.subplots(1,2, figsize=(20,5))
sns.heatmap(max_scores.mean_train_score, annot = True, fmt='.4g', ax=ax[0])
sns.heatmap(max_scores.mean_test_score, annot = True, fmt='.4g', ax=ax[1])
ax[0].set_title('Train Set')
ax[1].set_title('CV Set')
plt.show()
```
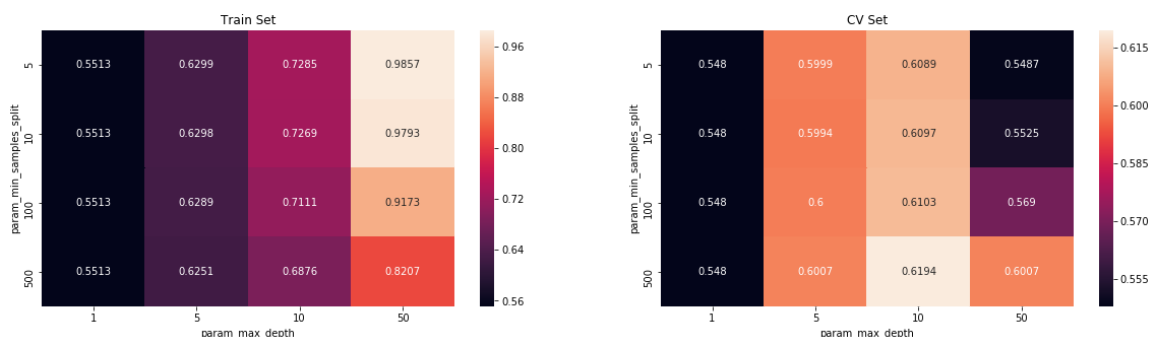

In [95]:

```
clf.best_score_
```

Out[95]:

```
0.6193626256846032
```

Hyperparameter tuning

In [96]:

```python
# https://scikit-learn.org/stable/modules/generated/sklearn.metrics.roc_curve.html#skle
arn.metrics.roc_curve
from sklearn.metrics import roc_curve, auc


dt = DecisionTreeClassifier(max_depth = 10, min_samples_split= 500)
dt.fit(X_train_tfidf ,y_train)
# roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of t
he positive class
# not the predicted outputs

y_train_pred = batch_predict(dt, X_train_tfidf)
y_test_pred = batch_predict(dt, X_test_tfidf)


train_fpr, train_tpr, tr_thresholds = roc_curve(y_train, y_train_pred)
test_fpr, test_tpr, te_thresholds = roc_curve(y_test, y_test_pred)

plt.plot(train_fpr, train_tpr, label="Train AUC ="+str(auc(train_fpr, train_tpr)))
plt.plot(test_fpr, test_tpr, label="Test AUC ="+str(auc(test_fpr, test_tpr)))
plt.legend()
plt.xlabel("True Positive Rate(TPR)")
plt.ylabel("False Positive Rate(FPR)")
plt.title("AUC")
plt.grid(color='black', linestyle='-', linewidth=0.5)
plt.show()
```


best threshold

In [97]:

```python
# we are writing our own function for predict, with defined thresould
# we will pick a threshold that will give the least fpr
def find_best_threshold(threshold, fpr, tpr):
    t = threshold[np.argmax(tpr*(1-fpr))]
    # (tpr*(1-fpr)) will be maximum if your fpr is very Low and tpr is very high
    print("the maximum value of tpr*(1-fpr)", max(tpr*(1-fpr)), "for threshold", np.rou
nd(t,3))
    return t


def predict_with_best_t(proba, threshold):
    predictions = []
    for i in proba:
        if i>=threshold:
            predictions.append(1)
        else:
            predictions.append(0)
    return predictions
```

Confusion matrix

In [98]:

```python
from sklearn.metrics import confusion_matrix
best_t = find_best_threshold(tr_thresholds, train_fpr, train_tpr)
print("Train confusion matrix")
print(confusion_matrix(y_train, predict_with_best_t(y_train_pred, best_t)))
print("Test confusion matrix")
print(confusion_matrix(y_test, predict_with_best_t(y_test_pred, best_t)))
print('='*100)
```

```
the maximum value of tpr*(1-fpr) 0.3621354737767973 for threshold 0.873
Train confusion matrix
[[ 3811  1632]
 [14710 15759]]
Test confusion matrix
[[ 2640  1362]
 [11016 11382]]
========================================================================
==========================
```

In [99]:

```
#stackoverflow.com/questions/54018742/valueerror-classification-metrics-cant-handle-a-m
ix-of-unknown-and-binary-targ
matrix = confusion_matrix(y_train, predict_with_best_t(y_train_pred, best_t))
sns.heatmap(matrix, annot=True, annot_kws={'size':16}, fmt='g')
plt.ylabel('True Label')
plt.xlabel('Predicted Label')
plt.title('Confusion Matrix')
```

Out[99]:

Text(0.5, 1, 'Confusion Matrix')
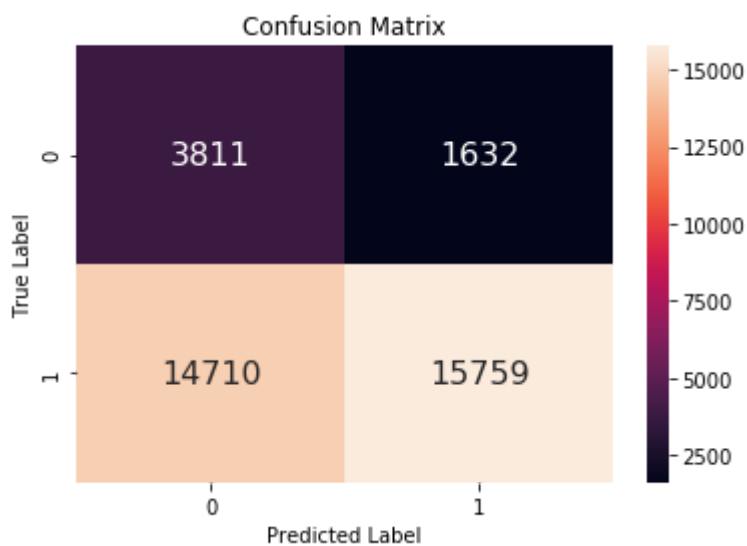
In [100]:

```
#stackoverflow.com/questions/54018742/valueerror-classification-metrics-cant-handle-a-m
ix-of-unknown-and-binary-targ
matrix = confusion_matrix(y_test, predict_with_best_t(y_test_pred, best_t))
sns.heatmap(matrix, annot=True, annot_kws={'size':16}, fmt='g')
plt.ylabel('True Label')
plt.xlabel('Predicted Label')
plt.title('Confusion Matrix')
```

Out[100]:

Text(0.5, 1, 'Confusion Matrix')
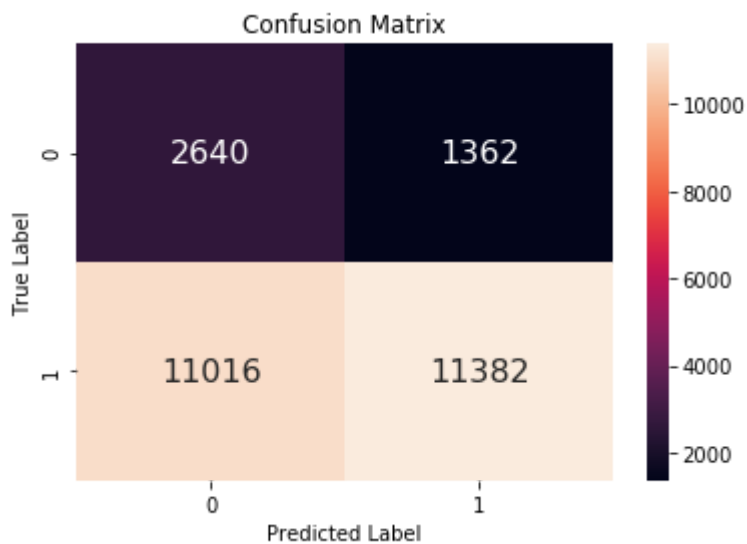
In [101]:

```python
tfidf_features_names = []

for a in vec1.get_feature_names() :
    tfidf_features_names.append(a)

for a in vec2.get_feature_names() :
    tfidf_features_names.append(a)

for a in vec3.get_feature_names() :
    tfidf_features_names.append(a)

for a in vec4.get_feature_names() :
    tfidf_features_names.append(a)

for a in vec5.get_feature_names() :
    tfidf_features_names.append(a)

tfidf_features_names.append("price")
tfidf_features_names.append("quantity")
tfidf_features_names.append("teacher_number_of_previously_posted")
tfidf_features_names.append("essay_length")
tfidf_features_names.append("essay_title")
tfidf_features_names.append("pos")
tfidf_features_names.append("neg")
tfidf_features_names.append("neu")
tfidf_features_names.append("comp")

for a in vec6.get_feature_names() :
    tfidf_features_names.append(a)

for a in vec7.get_feature_names() :
    tfidf_features_names.append(a)

len(tfidf_features_names)
```

Out[101]:

12361

In [102]:

```python
from sklearn.tree import DecisionTreeClassifier
dtree = DecisionTreeClassifier(max_depth=10)
dtree.fit(X_train_tfidf,y_train)
```

Out[102]:

```
DecisionTreeClassifier(ccp_alpha=0.0, class_weight=None, criterion='gini',
                       max_depth=10, max_features=None, max_leaf_nodes=Non
e,
                       min_impurity_decrease=0.0, min_impurity_split=None,
                       min_samples_leaf=1, min_samples_split=2,
                       min_weight_fraction_leaf=0.0, presort='deprecated',
                       random_state=None, splitter='best')
```

In [103]:

```
# ! pip install pydotplus
# !pip install graphviz
```

In [104]:

```
#https://pythonprogramminglanguage.com/decision-tree-visual-example/

import pydotplus
import graphviz
from sklearn import tree
import collections

# Visualize data
dot_data = tree.export_graphviz(dtree,
                                feature_names=tfidf_features_names,
                                out_file=None,
                                filled=True,
                                rounded=True)
graph = pydotplus.graph_from_dot_data(dot_data)

colors = ('turquoise', 'orange')
edges = collections.defaultdict(list)

for edge in graph.get_edge_list():
    edges[edge.get_source()].append(int(edge.get_destination()))

for edge in edges:
    edges[edge].sort()
    for i in range(2):
        dest = graph.get_node(str(edges[edge][i]))[0]
        dest.set_fillcolor(colors[i])

graph.write_png('tree.png')
```

Out[104]:

True

Word cloud

In [105]:

```
fp = []
for i in range(len(y_test)):
    if(y_test[i] == 0) and (y_test_pred[i] <= 1) :
        fp.append(i)
```

In [106]:

```
fp[0:5]
```

Out[106]:

[11, 23, 32, 37, 45]

In [107]:

```
fp_essay =[]
for i in fp:
    fp_essay.append(X_test['essay'].values[i])
```

In [108]:

```
fp_essay[0]
```

Out[108]:

'My district is responsible for creating an individualized learning community within my campus. We piloted this unique program last school year. The WIN Academy was created to help us succeed. I proud to say my classroom and I have been part of this program since we began. \\r\\nMy class consists of 100% Tier 3, at-risk scholars, who depend on differentiated instruction 100% of the time at levels. We became a family and continue to work as one. We will continue to make our district part by showing that we will WIN. Our WINners, at our campus are considered 100% at-risk and range from being 1-2 grade levels behind. My third graders are one in four classrooms with this demographic. Technological tools, like these wireless headphones, help a lot in helping our scholars improve. My scholars are also English Language Learners (ELLs). When this station is used with grade level books. my scholars are learning the English language, understanding it, and making sure they are prepared for certain skills. My scholars will benefit from these headphones because they will be having fun listening fun and engaging stories, yet learning at the same time. Their reading levels will increase with this station.nannan'

In [109]:

```
len(fp_essay)
```

Out[109]:

4002

In [110]:

```python
from wordcloud import WordCloud, STOPWORDS
comment_words = ' '
stopwords = set(STOPWORDS)
for val in fp_essay :
    val = str(val)
    tokens = val.split()
for i in range(len(tokens)):
        tokens[i] = tokens[i].lower()
for words in tokens :
    comment_words = comment_words + words + ' '

wordcloud = WordCloud(width = 800, height = 800, background_color ='white', stopwords =
stopwords,
min_font_size = 10).generate(comment_words)

plt.figure(figsize = (6, 6), facecolor = None)
plt.imshow(wordcloud)
plt.axis("off")
plt.tight_layout(pad = 0)
plt.show()
```


box plot with the price of false positive data points

In [111]:

```python
fp_price=[]
for i in fp:
    fp_price.append(X_test['price'].values[i])
```

In [112]:

```
fp_price[0:2]
```

Out[112]:

[299.99, 299.99]

In [113]:

```
plt.xlabel("False Positive")
plt.ylabel("Price")
plt.title("Rejected Projects that are Predicted as Positive")
sns.boxplot(fp_price)
plt.show()
```
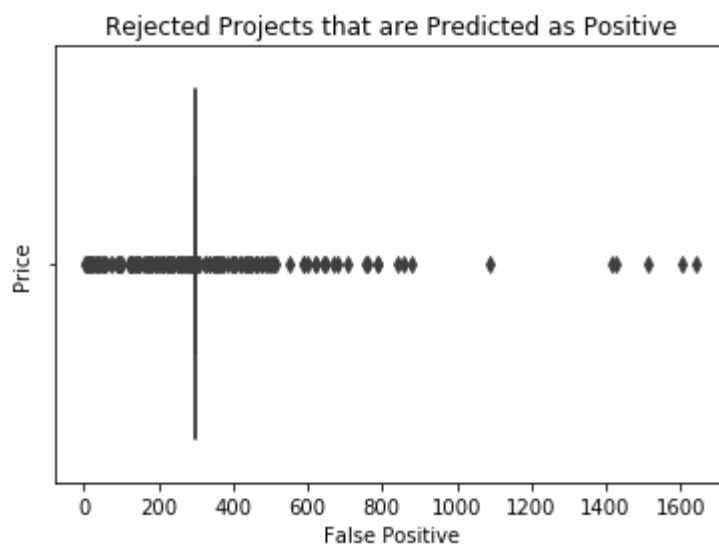

pdf of the teacher_number_of_previously_posted_projects with false positive data points

In [114]:

```
count,bin_edges=np.histogram(X_test['teacher_number_of_previously_posted_projects'].val
ues[i],bins=10,density=True)

#pdf
pdf=count/(sum(count))

p=plt.plot(bin_edges[1:],pdf,label='pdf')

plt.ylabel('PDF')
plt.xlabel('Previoulsy posted project count')
plt.legend()
plt.title('Previoulsy posted projects which are False positive')
plt.show()
```
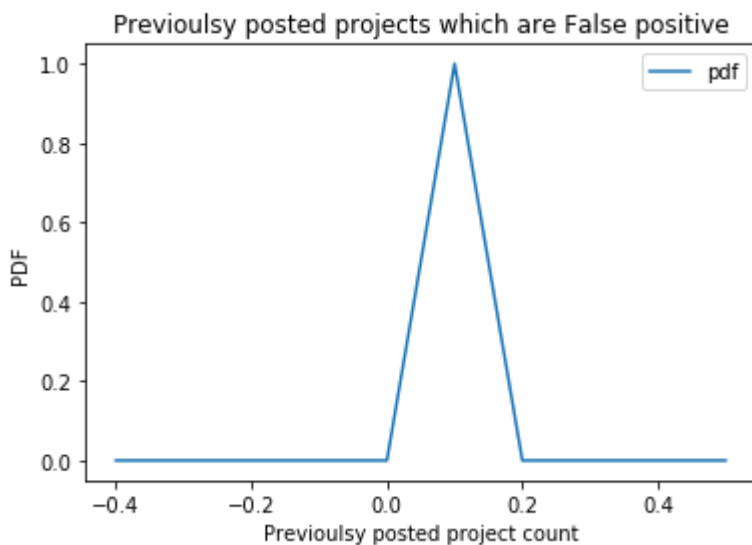

top 5000 features from tfidf

In [115]:

```
dt = DecisionTreeClassifier( max_depth= None, max_features=5000, class_weight='balance
d')
dt.fit(X_train_tfidf, y_train)
```

Out[115]:

```
DecisionTreeClassifier(ccp_alpha=0.0, class_weight='balanced', criterion
='gini',
                       max_depth=None, max_features=5000, max_leaf_nodes=N
one,
                       min_impurity_decrease=0.0, min_impurity_split=None,
                       min_samples_leaf=1, min_samples_split=2,
                       min_weight_fraction_leaf=0.0, presort='deprecated',
                       random_state=None, splitter='best')
```

In [116]:

```python
# https://machinelearningmastery.com/calculate-feature-importance-with-python/
# get importance
imp = dt.feature_importances_
# summarize feature importance
for i,v in enumerate(imp):
    print('Feature: %0d, Score: %.5f' % (i,v))
```

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Feature: 0, Score: 0.00000
Feature: 1, Score: 0.00000
Feature: 2, Score: 0.00000
Feature: 3, Score: 0.00000
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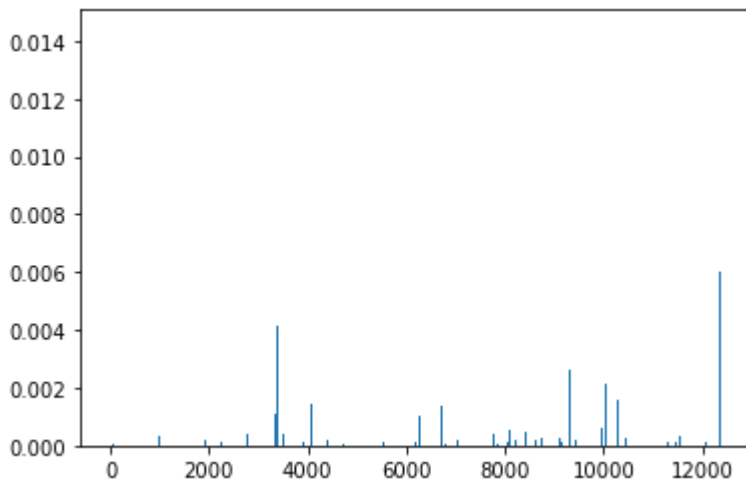
In [117]:

```
print(len(imp))
```

```
12361
```

In [118]:

```python
from matplotlib import pyplot
# plot feature importance
pyplot.bar([x for x in range(len(imp))], imp)
pyplot.show()
```


In [119]:

```python
df = pd.DataFrame(data=tfidf_features_names,columns=["Feature Name"])
df["Feature Value"] = imp
print(len(tfidf_features_names),len(imp))
```

12361 12361

In [120]:

```python
df.tail()
```

Out[120]:

	Feature Name	Feature Value
12356	yes	0.006609
12357	yoga	0.005485
12358	young	0.004564
12359	youth	0.006035
12360	zone	0.003076

In [121]:

```python
df =df.sort_values(by=["Feature Value"],ascending=False)
```

In [122]:

```
df.head()
```

Out[122]:

	Feature Name	Feature Value
7898	regardless	0.014361
7507	progresses	0.014237
2803	dictation	0.010986
3344	empowerment	0.009685
10928	calming	0.009398

In [123]:

```
df = df[:5000]
df.shape
```

Out[123]:

(5000, 2)

In [124]:

```
top_5k = df.index.tolist()
len(top_5k)
```
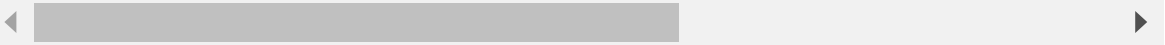
Out[124]:

5000

In [125]:

```
train =X_train_tfidf.todense()
train_tfidf =pd.DataFrame(train)
train_tfidf.head()
```

Out[125]:

	0	1	2	3	4	5	6	7	8	9	...	12351	12352	12353	12354	12
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.004224	1.0	1.0	-1.568
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.004224	1.0	1.0	-1.456
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.004224	1.0	0.0	1.3523
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.012531	1.0	0.0	0.210
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.004224	1.0	1.0	1.652(

5 rows × 12361 columns

◄   ►

In [126]:

```
train_tfidf.shape
```

Out[126]:

(35912, 12361)

In [127]:

```
train_tfidf = train_tfidf.iloc[:,top_5k]
train_tfidf.shape
```

Out[127]:

(35912, 5000)

In [128]:

```
test = X_test_tfidf.todense()
test_tfidf =pd.DataFrame(test)
test_tfidf = test_tfidf.iloc[:,top_5k]
```

In [129]:

```
cv = X_cv_tfidf.todense()
cv_tfidf =pd.DataFrame(cv)
cv_tfidf = cv_tfidf.iloc[:,top_5k]
```

Applying Linear SVM

In [130]:

```python
import matplotlib.pyplot as plt
from sklearn import linear_model
from sklearn.linear_model import SGDClassifier
from sklearn.calibration import CalibratedClassifierCV
from sklearn import svm
from sklearn.metrics import roc_auc_score
import math


train_auc = []
cv_auc = []
alpha =[0.0001,0.001,0.01,0.1,1,10,100,1000]

# hyperparameter tuning with l2 reg
for i in    tqdm(alpha):
    sd = SGDClassifier(loss = 'hinge', penalty = 'l2', class_weight = 'balanced',alpha
= i)
    svm = CalibratedClassifierCV(sd, cv= 5)# takes the alpha from the i th list value
    svm.fit(train_tfidf, y_train)# fit the model

# roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of t
he positive class
# not the predicted outputs
    y_train_pred=batch_predict(svm,train_tfidf)
    y_cv_pred=batch_predict(svm,cv_tfidf)
# roc curve
#Compute Area Under the Receiver Operating Characteristic Curve (ROC AUC) from predicti
on scores.
    train_auc.append(roc_auc_score(y_train,y_train_pred))
    cv_auc.append(roc_auc_score(y_cv, y_cv_pred))
plt.plot(alpha, train_auc, label='Train AUC')
plt.plot(alpha, cv_auc, label='CV AUC')
plt.xscale('log')# we take the log in the x axis
plt.scatter(alpha, train_auc, label='Train AUC points')
plt.scatter(alpha, cv_auc, label='CV AUC points')
plt.xscale('log')
plt.legend()
plt.xlabel("alpha: hyperparameter")
plt.ylabel("AUC")
plt.title("ERROR PLOTS")
plt.show()
```

```
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```


best alpha

In [131]:

```
optimal_alpha= alpha[cv_auc.index(max(cv_auc))]
alpha_values=[math.log(x) for x in alpha]
print('optimal alpha for which auc is maximum : ',optimal_alpha)
```

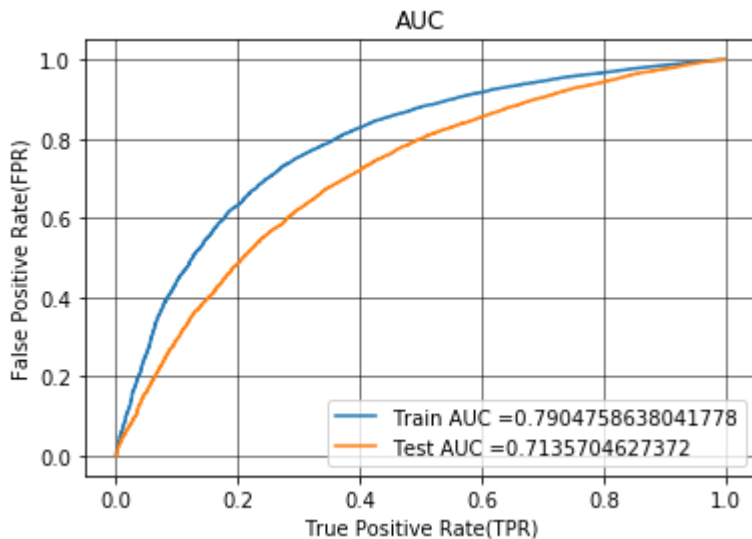optimal alpha for which auc is maximum : 0.0001

Hyperparameter tuning

In [132]:

```python
sd = SGDClassifier(penalty = 'l2', class_weight = 'balanced',alpha = optimal_alpha)
svm = CalibratedClassifierCV(sd, cv= 5)# takes the alpha from the i th list value
svm.fit(train_tfidf, y_train)


y_train_pred = batch_predict(svm,train_tfidf)
y_test_pred = batch_predict(svm,test_tfidf)


train_fpr, train_tpr, tr_thresholds = roc_curve(y_train, y_train_pred)
test_fpr, test_tpr, te_thresholds = roc_curve(y_test, y_test_pred)

plt.plot(train_fpr, train_tpr, label="Train AUC ="+str(auc(train_fpr, train_tpr)))
plt.plot(test_fpr, test_tpr, label="Test AUC ="+str(auc(test_fpr, test_tpr)))
plt.legend()
plt.xlabel("True Positive Rate(TPR)")
plt.ylabel("False Positive Rate(FPR)")
plt.title("AUC")
plt.grid(color='black', linestyle='-', linewidth=0.5)
plt.show()
```


best threshold

In [133]:

```python
# we are writing our own function for predict, with defined thresould
# we will pick a threshold that will give the least fpr
def find_best_threshold(threshold, fpr, tpr):
    t = threshold[np.argmax(tpr*(1-fpr))]
    # (tpr*(1-fpr)) will be maximum if your fpr is very low and tpr is very high
    print("the maximum value of tpr*(1-fpr)", max(tpr*(1-fpr)), "for threshold", np.rou
nd(t,3))
    return t


def predict_with_best_t(proba, threshold):
    predictions = []
    for i in proba:
        if i>=threshold:
            predictions.append(1)
        else:
            predictions.append(0)
    return predictions
```

Confusion Matrix

In [134]:

```python
from sklearn.metrics import confusion_matrix
best_t = find_best_threshold(tr_thresholds, train_fpr, train_tpr)
print("Train confusion matrix")
print(confusion_matrix(y_train, predict_with_best_t(y_train_pred, best_t)))
print("Test confusion matrix")
print(confusion_matrix(y_test, predict_with_best_t(y_test_pred, best_t)))
print('='*100)
```

```
the maximum value of tpr*(1-fpr) 0.5310487734445482 for threshold 0.83
Train confusion matrix
[[ 3949  1494]
 [ 8167 22302]]
Test confusion matrix
[[ 2437  1565]
 [ 6447 15951]]
========================================================================
==========================
```
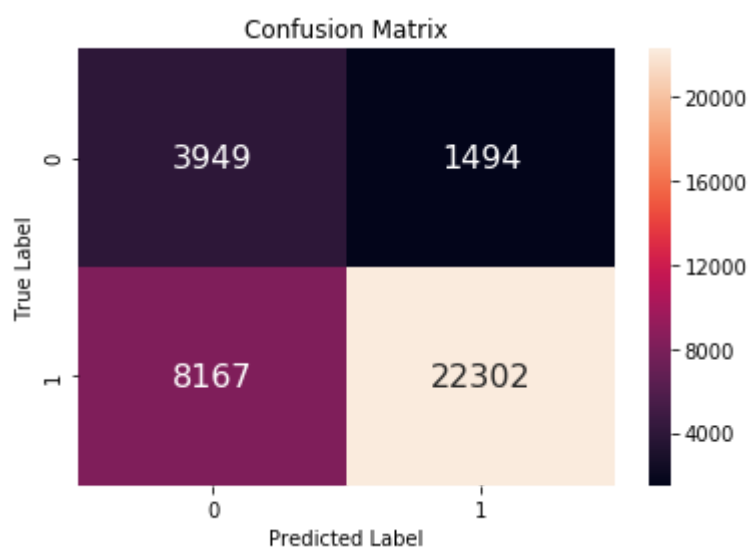
In [135]:

```
#stackoverflow.com/questions/54018742/valueerror-classification-metrics-cant-handle-a-m
ix-of-unknown-and-binary-targ
matrix = confusion_matrix(y_train, predict_with_best_t(y_train_pred, best_t))
sns.heatmap(matrix, annot=True, annot_kws={'size':16}, fmt='g')
plt.ylabel('True Label')
plt.xlabel('Predicted Label')
plt.title('Confusion Matrix')
```

Out[135]:

Text(0.5, 1, 'Confusion Matrix')

In [136]:

```
#stackoverflow.com/questions/54018742/valueerror-classification-metrics-cant-handle-a-m
ix-of-unknown-and-binary-targ
matrix = confusion_matrix(y_test, predict_with_best_t(y_test_pred, best_t))
sns.heatmap(matrix, annot=True, annot_kws={'size':16}, fmt='g')
plt.ylabel('True Label')
plt.xlabel('Predicted Label')
plt.title('Confusion Matrix')
```

Out[136]:

Text(0.5, 1, 'Confusion Matrix')
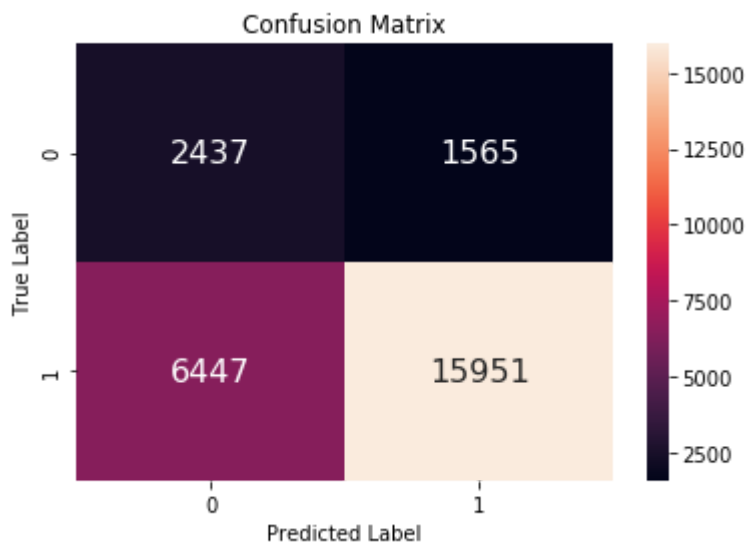
KNN on tfidf_w2v

In [137]:

```
random_grid = {'max_depth': [1,5,10,50],
                'min_samples_split': [5,10,100,500]}

dt = DecisionTreeClassifier( class_weight='balanced')
clf = GridSearchCV(estimator = dt, param_grid = random_grid, cv = 10, return_train_scor
e=True, scoring = 'roc_auc', n_jobs = -1,verbose =2)
clf.fit(X_train_tfidf_w2v, y_train)
```

Fitting 10 folds for each of 16 candidates, totalling 160 fits

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 4 concurrent worker
s.
[Parallel(n_jobs=-1)]: Done 33 tasks | elapsed: 1.2min
[Parallel(n_jobs=-1)]: Done 160 out of 160 | elapsed: 370.2min finished

Out[137]:

```
GridSearchCV(cv=10, error_score=nan,
             estimator=DecisionTreeClassifier(ccp_alpha=0.0,
                                              class_weight='balanced',
                                              criterion='gini', max_depth=
None,
                                              max_features=None,
                                              max_leaf_nodes=None,
                                              min_impurity_decrease=0.0,
                                              min_impurity_split=None,
                                              min_samples_leaf=1,
                                              min_samples_split=2,
                                              min_weight_fraction_leaf=0.
0,
                                              presort='deprecated',
                                              random_state=None,
                                              splitter='best'),
             iid='deprecated', n_jobs=-1,
             param_grid={'max_depth': [1, 5, 10, 50],
                         'min_samples_split': [5, 10, 100, 500]},
             pre_dispatch='2*n_jobs', refit=True, return_train_score=True,
             scoring='roc_auc', verbose=2)
```

In [138]:

```
clf.best_params_
```

Out[138]:

```
{'max_depth': 5, 'min_samples_split': 5}
```

In [139]:

```
train_auc= clf.cv_results_['mean_train_score']
train_auc
```

Out[139]:

```
array([0.55923724, 0.55923724, 0.55923724, 0.55923724, 0.65801736,
       0.65801736, 0.65772049, 0.65574862, 0.84569313, 0.84396043,
       0.80429091, 0.73405427, 0.99942855, 0.99858199, 0.92739771,
       0.75679459])
```

In [140]:

```
cv_auc= clf.cv_results_['mean_test_score']
cv_auc
```

Out[140]:

```
array([0.55428175, 0.55428175, 0.55428175, 0.55428175, 0.60423287,
       0.60423287, 0.60418153, 0.60419827, 0.55971944, 0.55872125,
       0.57107533, 0.59107598, 0.52924501, 0.52642791, 0.54229142,
       0.58497233])
```

In [141]:

```
max_scores = pd.DataFrame(clf.cv_results_).groupby(['param_min_samples_split', 'param_m
ax_depth']).max().unstack()[['mean_test_score', 'mean_train_score']]
fig, ax = plt.subplots(1,2, figsize=(20,5))
sns.heatmap(max_scores.mean_train_score, annot = True, fmt='.4g', ax=ax[0])
sns.heatmap(max_scores.mean_test_score, annot = True, fmt='.4g', ax=ax[1])
ax[0].set_title('Train Set')
ax[1].set_title('CV Set')
plt.show()
```
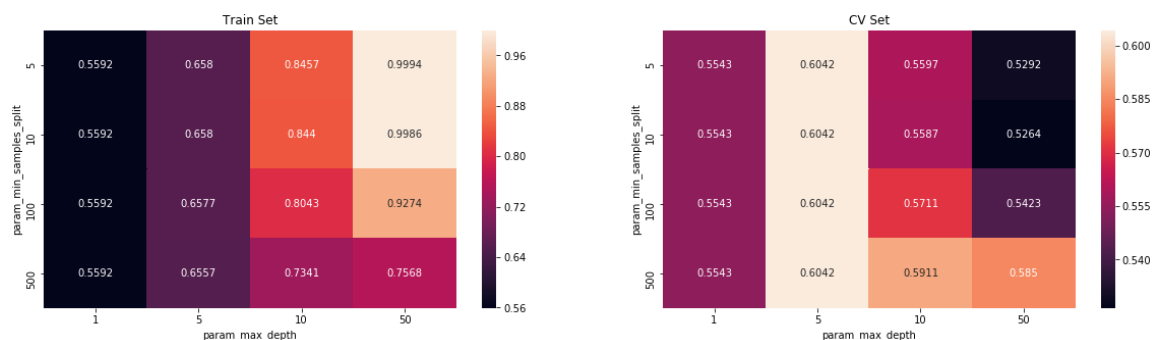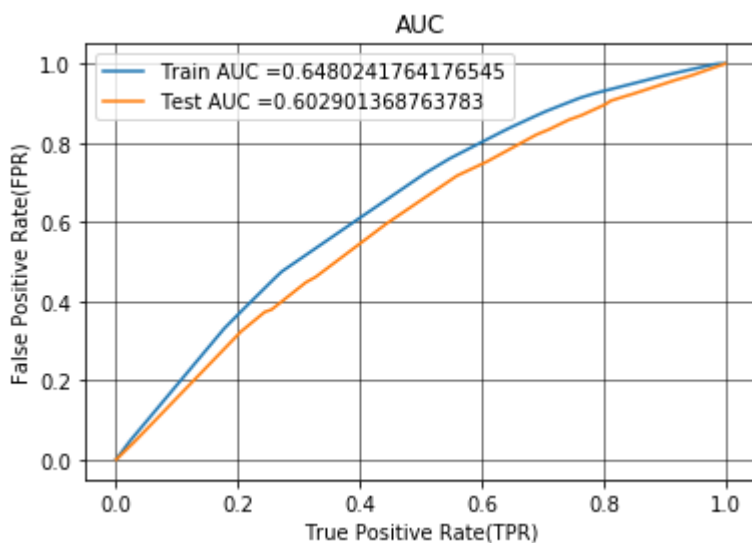

Hyperparameter tuning

In [153]:

```
# https://scikit-learn.org/stable/modules/generated/sklearn.metrics.roc_curve.html#skle
arn.metrics.roc_curve
from sklearn.metrics import roc_curve, auc


dt = DecisionTreeClassifier(max_depth = 5, min_samples_split= 5)
dt.fit(X_train_tfidf_w2v ,y_train)
# roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of t
he positive class
# not the predicted outputs

y_train_pred = batch_predict(dt, X_train_tfidf_w2v)
y_test_pred = batch_predict(dt, X_test_tfidf_w2v)


train_fpr, train_tpr, tr_thresholds = roc_curve(y_train, y_train_pred)
test_fpr, test_tpr, te_thresholds = roc_curve(y_test, y_test_pred)

plt.plot(train_fpr, train_tpr, label="Train AUC ="+str(auc(train_fpr, train_tpr)))
plt.plot(test_fpr, test_tpr, label="Test AUC ="+str(auc(test_fpr, test_tpr)))
plt.legend()
plt.xlabel("True Positive Rate(TPR)")
plt.ylabel("False Positive Rate(FPR)")
plt.title("AUC")
plt.grid(color='black', linestyle='-', linewidth=0.5)
plt.show()
```


best threshold

In [154]:

```python
# we are writing our own function for predict, with defined thresould
# we will pick a threshold that will give the least fpr
def find_best_threshold(threshold, fpr, tpr):
    t = threshold[np.argmax(tpr*(1-fpr))]
    # (tpr*(1-fpr)) will be maximum if your fpr is very low and tpr is very high
    print("the maximum value of tpr*(1-fpr)", max(tpr*(1-fpr)), "for threshold", np.rou
nd(t,3))
    return t


def predict_with_best_t(proba, threshold):
    predictions = []
    for i in proba:
        if i>=threshold:
            predictions.append(1)
        else:
            predictions.append(0)
    return predictions
```
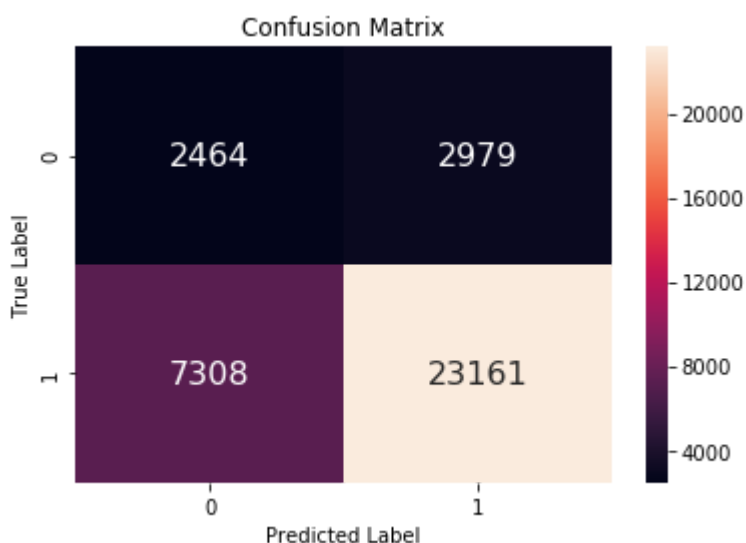
Confusion Matrix

In [155]:

```python
#stackoverflow.com/questions/54018742/valueerror-classification-metrics-cant-handle-a-m
ix-of-unknown-and-binary-targ
matrix = confusion_matrix(y_train, predict_with_best_t(y_train_pred, best_t))
sns.heatmap(matrix, annot=True, annot_kws={'size':16}, fmt='g')
plt.ylabel('True Label')
plt.xlabel('Predicted Label')
plt.title('Confusion Matrix')
```

Out[155]:

Text(0.5, 1, 'Confusion Matrix')

In [156]:

```
#stackoverflow.com/questions/54018742/valueerror-classification-metrics-cant-handle-a-m
ix-of-unknown-and-binary-targ
matrix = confusion_matrix(y_test, predict_with_best_t(y_test_pred, best_t))
sns.heatmap(matrix, annot=True, annot_kws={'size':16}, fmt='g')
plt.ylabel('True Label')
plt.xlabel('Predicted Label')
plt.title('Confusion Matrix')
```

Out[156]:

Text(0.5, 1, 'Confusion Matrix')
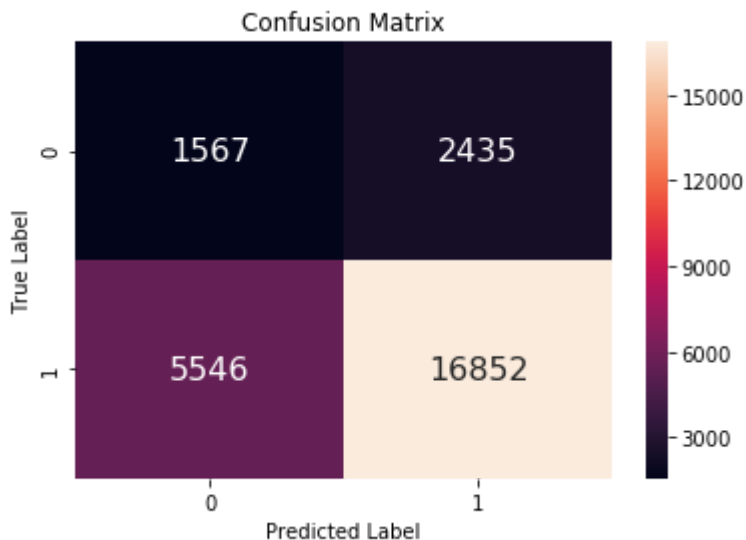
word cloud

In [157]:

```
fp = []
for i in range(len(y_test)):
    if(y_test[i] == 0) and (y_test_pred[i] <= 1) :
        fp.append(i)
```

In [158]:

```
fp_essay =[]
for i in fp:
    fp_essay.append(X_test['essay'].values[i])
```
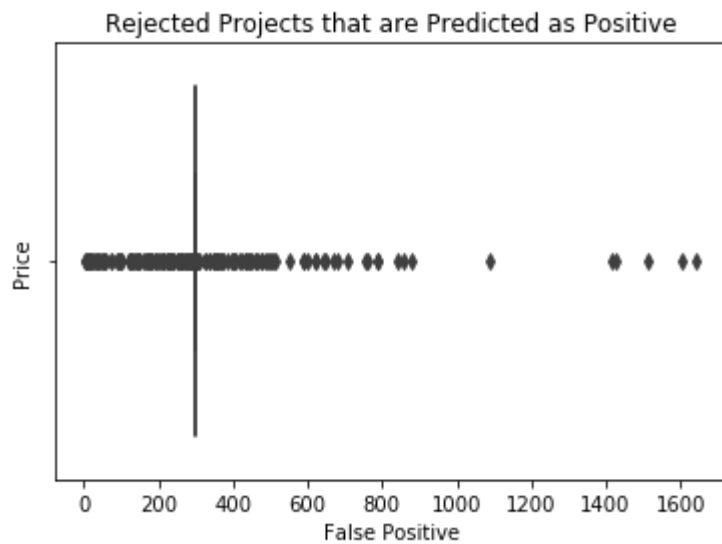
In [159]:

```python
from wordcloud import WordCloud, STOPWORDS
comment_words = ' '
stopwords = set(STOPWORDS)
for val in fp_essay :
    val = str(val)
    tokens = val.split()
for i in range(len(tokens)):
        tokens[i] = tokens[i].lower()
for words in tokens :
    comment_words = comment_words + words + ' '

wordcloud = WordCloud(width = 800, height = 800, background_color ='white', stopwords =
stopwords,
min_font_size = 10).generate(comment_words)

plt.figure(figsize = (6, 6), facecolor = None)
plt.imshow(wordcloud)
plt.axis("off")
plt.tight_layout(pad = 0)
plt.show()
```


boxplot with price

In [160]:

```python
fp_price=[]
for i in fp:
    fp_price.append(X_test['price'].values[i])
```

In [161]:

```
plt.xlabel("False Positive")
plt.ylabel("Price")
plt.title("Rejected Projects that are Predicted as Positive")
sns.boxplot(fp_price)
plt.show()
```


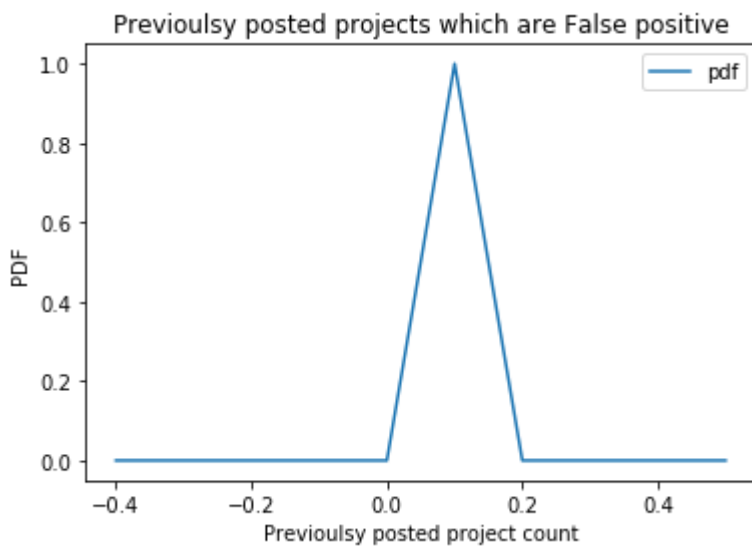
pdf of previously posted projects

In [162]:

```
count,bin_edges=np.histogram(X_test['teacher_number_of_previously_posted_projects'].val
ues[i],bins=10,density=True)

#pdf
pdf=count/(sum(count))

p=plt.plot(bin_edges[1:],pdf,label='pdf')

plt.ylabel('PDF')
plt.xlabel('Previoulsy posted project count')
plt.legend()
plt.title('Previoulsy posted projects which are False positive')
plt.show()
```


Summary

In [169]:

```python
#how to use pretty table http://zetcode.com/python/prettytable/
from prettytable import PrettyTable
pt = PrettyTable()
pt.field_names= (" Vectorizer ", " Max_depth ", " Min_sample_split "," Test -AUC ")
pt.add_row([" tf-idf ", 10, 500, 61.43])
pt.add_row([" tf-idf_w2v", 5 , 5 ,60.29 ])
print(pt)

pt = PrettyTable()
pt.field_names =("Vectorizer","Model", "hyperparameter","test auc")
pt.add_row(["tfidf for top 5000","Linear SVM",0.0001,71.35])
print(pt)
```

```
+--------------+-----------+-------------------+------------+
|  Vectorizer  | Max_depth | Min_sample_split  | Test -AUC  |
+--------------+-----------+-------------------+------------+
|    tf-idf    |     10    |        500        |    61.43   |
|  tf-idf_w2v  |     5     |         5         |    60.29   |
+--------------+-----------+-------------------+------------+
+--------------------+------------+----------------+----------+
|     Vectorizer     |   Model    | hyperparameter | test auc |
+--------------------+------------+----------------+----------+
| tfidf for top 5000 | Linear SVM |     0.0001     |  71.35   |
+--------------------+------------+----------------+----------+
```