

# Assignment 6: Apply NB

## 2. Naive Bayes

In [33]:

```
pip install chart_studio
```

```
Requirement already satisfied: chart_studio in /usr/local/lib/python3.7/dist-packages (1.1.0)
Requirement already satisfied: requests in /usr/local/lib/python3.7/dist-packages (from chart_studio) (2.23.0)
Requirement already satisfied: plotly in /usr/local/lib/python3.7/dist-packages (from chart_studio) (4.4.1)
Requirement already satisfied: six in /usr/local/lib/python3.7/dist-packages (from chart_studio) (1.15.0)
Requirement already satisfied: retrying>=1.3.3 in /usr/local/lib/python3.7/dist-packages (from chart_studio) (1.3.3)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.7/dist-packages (from requests->chart_studio) (2020.12.5)
Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.7/dist-packages (from requests->chart_studio) (2.10)
Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python3.7/dist-packages (from requests->chart_studio) (3.0.4)
Requirement already satisfied: urllib3!=1.25.0,!1.25.1,<1.26,>=1.21.1 in /usr/local/lib/python3.7/dist-packages (from requests->chart_studio) (1.24.3)
```

In [34]:

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

import pandas as pd
import numpy as np
import nltk
import matplotlib.pyplot as plt
import seaborn as sns
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

import re
# Tutorial about Python regular expressions: https://pymotw.com/2/re/

import pickle
from tqdm import tqdm
import os

import chart_studio.plotly as py
import plotly.offline as offline
import plotly.graph_objs as go
offline.init_notebook_mode()
from collections import Counter
```

## 1.1 Loading Data

In [35]:

```
import pandas
```

```
data = pandas.read_csv('/content/sample_data/preprocessed_data.csv',nrows=50000)
```

In [36]:

```
data.head(3)
```

Out[36]:

	school_state	teacher_prefix	project_grade_category	teacher_number_of_previously_posted_projects	project_is_approved	c
0	ca	mrs	grades_prek_2	53	1	
1	ut	ms	grades_3_5	4	1	
2	ca	mrs	grades_prek_2	10	1	lit

In [37]:

```
#storing the project_is_approved(class label) seperately and removing it from the dataset
y = data['project_is_approved'].values
x = data.drop(columns='project_is_approved',axis=1)
x.head(3)
```

Out[37]:

	school_state	teacher_prefix	project_grade_category	teacher_number_of_previously_posted_projects	clean_categories	clean
0	ca	mrs	grades_prek_2	53	math_science	h
1	ut	ms	grades_3_5	4	specialneeds	
2	ca	mrs	grades_prek_2	10	literacy_language	

## 1.2 Splitting data into Train and cross validation(or test): Stratified Sampling

In [38]:

```
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,stratify=y_t
rain)
```

In [39]:

```
#the shapes of train,test and cv datasets are :
print(X_train.shape,y_train.shape)
print(X_cv.shape,y_cv.shape)
print(X_test.shape,y_test.shape)
```

```
(22445, 8) (22445,)
(11055, 8) (11055,)
(16500, 8) (16500,)
```

## 1.3 Make Data Model Ready: encoding eassay

### Encoding Text Feature using BOW : Essay

In [40]:

```
feature_names_set1 = []
vectorizer = CountVectorizer(min_df=10,ngram_range=(1,4), max_features=5000)
vectorizer.fit(X_train['essay'].values)
```

```
X_train_essay_bow = vectorizer.transform(X_train['essay'].values)
X_cv_essay_bow = vectorizer.transform(X_cv['essay'].values)
X_test_essay_bow = vectorizer.transform(X_test['essay'].values)
```

```
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)
feature_names_set1.extend(vectorizer.get_feature_names())
print(feature_names_set1)
```

After vectorizations

```
(22445, 5000) (22445,)
(11055, 5000) (11055,)
(16500, 5000) (16500,)
['000', '10', '100', '100 free', '100 percent', '100 students', '100 students receive', '100 students receive free', '11', '12', '12th', '13', '14', '15', '16', '17', '18', '1st', '1st grade', '1st graders', '20', '2016', '2016 2017', '2017', '21', '21st', '21st cent', '21st century learners', '21st century skills', '22', '23', '24', '25', '25 student', '26', '28', '2nd', '2nd grade', '2nd graders', '30', '30 students', '3d', '3rd', '3rd grade', '3rd graders', '40', '45', '4th', '4th 5th', '4th grade', '4th graders', '50', '50 students', '500', '5th', '5th grade', '5th grade students', '5th graders', '60', '60 minutes', '60 minutes day', '60 students', '6th', '6th grade', '6th graders', '70', '75', '75 students', '7th', '7th 8th', '7th grade', '80', '80 students', '85', '8th', '8th grade', '8th grade students', '8th graders', '90', '90 students', '95', '98', '99', '9th', 'abilities', 'ability', 'ability learn', 'ability levels', 'able', 'able access', 'able choose', 'able control', 'able control home', 'able control home lives', 'able create', 'able explore', 'able focus', 'able get', 'able give', 'able learn', 'able make', 'able move', 'able practice', 'able provide', 'able provide students', 'able read', 'able see', 'able sit', 'able take', 'able use', 'able work', 'about', 'absolutely', 'absolutely love', 'abstract', 'academic', 'academic achievement', 'academic excellence', 'academic performance', 'academic skills', 'academic social', 'academic success', 'academically', 'academically socially', 'academics', 'academy', 'accelerated', 'access', 'access books', 'access computers', 'access internet', 'access materials', 'access technology', 'access technology home', 'accessible', 'accommodate', 'accomplish', 'according', 'achieve', 'achieve goals', 'achievement', 'achievement gap', 'achieving', 'acquire', 'across', 'act', 'action', 'active', 'active learners', 'active learning', 'actively', 'actively engaged', 'activities', 'activities help', 'activities my', 'activities students', 'activities the', 'activities they', 'activity', 'actual', 'actually', 'add', 'added', 'adding', 'addition', 'addition classroom', 'addition subtraction', 'additional', 'additionally', 'address', 'adequate', 'adhd', 'adult', 'adults', 'advance', 'advanced', 'advantage', 'adventure', 'adventures', 'affect', 'affluent', 'afford', 'afraid', 'african', 'african american', 'after', 'afternoon', 'age', 'age appropriate', 'ages', 'ago', 'ahead', 'aid', 'aids', 'aim', 'air', 'algebra', 'alive', 'all', 'all students', 'all students receive', 'all students receive free', 'allow', 'allow student', 'allow students', 'allow students access', 'allow students learn', 'allow students move', 'allow students work', 'allow us', 'allowed', 'allowing', 'allowing students', 'allows', 'allows students', 'almost', 'alone', 'along', 'aloud', 'al
```

ouds', 'alphabet', 'already', 'also', 'also able', 'also allow', 'also allow students', 'also give', 'also help', 'also help students', 'also learn', 'also like', 'also love', 'also need', 'also provide', 'also requesting', 'also students', 'also use', 'also used', 'also want', 'alternative', 'alternative seating', 'although', 'although students', 'always', 'always asking', 'always eager', 'always looking', 'amaze', 'amazed', 'amazing', 'amazing group', 'amazing students', 'amazing they', 'america', 'american', 'americans', 'among', 'among students', 'amount', 'amount time', 'an', 'analysis', 'analyze', 'anchor', 'and', 'animal', 'animals', 'another', 'answer', 'answers', 'anxiety', 'anxious', 'any', 'anyone', 'anything', 'anywhere', 'ap', 'apart', 'app', 'apple', 'application', 'applications', 'apply', 'appreciate', 'appreciated', 'appreciation', 'approach', 'appropriate', 'appropriately', 'approximately', 'apps', 'area', 'area many', 'area students', 'areas', 'around', 'around classroom', 'around my', 'around room', 'around they', 'around us', 'around world', 'array', 'arrive', 'art', 'art class', 'art projects', 'art room', 'art supplies', 'articles', 'artist', 'artistic', 'artists', 'arts', 'artwork', 'as', 'as result', 'as school', 'as students', 'as teacher', 'as teacher low', 'as teacher low income', 'asian', 'ask', 'ask questions', 'asked', 'asked students', 'asking', 'aspect', 'aspects', 'assess', 'assessment', 'assessments', 'asset', 'assigned', 'assignment', 'assignments', 'assist', 'assist students', 'assistance', 'at', 'at end', 'at school', 'athletes', 'atmosphere', 'attend', 'attend school', 'attend title', 'attend title school', 'attendance', 'attended', 'attending', 'attention', 'attitude', 'attitudes', 'audio', 'auditory', 'august', 'authentic', 'author', 'authors', 'autism', 'autism spectrum', 'available', 'available students', 'average', 'avid', 'aware', 'awareness', 'away', 'awesome', 'back', 'background', 'background knowledge', 'backgrounds', 'backgrounds many', 'backgrounds they', 'backgrounds we', 'backpack', 'backpacks', 'bad', 'bag', 'bag chairs', 'bags', 'balance', 'balance ball', 'balance balls', 'ball', 'ball chairs', 'balls', 'band', 'bands', 'barriers', 'base', 'based', 'based learning', 'based socioeconomic', 'based socioeconomic status', 'basic', 'basic needs', 'basic school', 'basic school supplies', 'basic supplies', 'basics', 'basis', 'basketball', 'bean', 'bean bag', 'bean bag chairs', 'bean bags', 'beat', 'beautiful', 'became', 'because', 'become', 'become better', 'become better readers', 'become independent', 'become successful', 'becomes', 'becoming', 'began', 'begin', 'beginning', 'beginning year', 'begins', 'behavior', 'behavioral', 'behaviors', 'behind', 'being', 'being able', 'believe', 'believe students', 'beneficial', 'benefit', 'benefit greatly', 'benefit students', 'benefits', 'besides', 'best', 'best education', 'best education possible', 'best learning', 'best my', 'best students', 'best they', 'best way', 'best work', 'better', 'better readers', 'better understand', 'better understanding', 'better way', 'beyond', 'big', 'bigger', 'biggest', 'bilingual', 'binders', 'bins', 'biology', 'bit', 'black', 'blended', 'blessed', 'block', 'blocks', 'blood', 'blue', 'board', 'boards', 'bodies', 'body', 'book', 'book bins', 'book read', 'books', 'books allow', 'books classroom', 'books help', 'books home', 'books not', 'books read', 'books reading', 'books students', 'books used', 'books would', 'boost', 'boring', 'born', 'borrow', 'both', 'bottles', 'bounce', 'bouncy', 'bouncy bands', 'box', 'boxes', 'boys', 'boys girls', 'brain', 'brain breaks', 'brains', 'brand', 'brand new', 'break', 'breakfast', 'breakfast lunch', 'breakfast lunch many', 'breaks', 'bridge', 'bright', 'brilliant', 'bring', 'bringing', 'brings', 'broken', 'bronx', 'brought', 'budget', 'budget cuts', 'build', 'build confidence', 'building', 'builds', 'built', 'bunch', 'bundle', 'burn', 'bus', 'business', 'busy', 'but', 'buy', 'by', 'by creative', 'by creative positive', 'by creative positive way', 'by donating', 'by donating project', 'by providing', 'by using', 'calculators', 'california', 'call', 'called', 'calm', 'calming', 'calories', 'came', 'camera', 'cameras', 'campus', 'can', 'can not', 'cannot afford', 'capable', 'capture', 'cards', 'care', 'career', 'career ready', 'careers', 'caring', 'carolina', 'carpet', 'carry', 'cart', 'case', 'cases', 'catch', 'cause', 'cd', 'celebrate', 'cell', 'center', 'center students', 'center time', 'centered', 'centers', 'central', 'century', 'century learners', 'century skills', 'certain', 'certainly', 'certainly control', 'certainly control experience', 'certainly control experience school', 'chair', 'chairs', 'chairs allow', 'chairs help', 'challenge', 'challenge students', 'challenged', 'challenges', 'challenges classroom', 'challenges classroom despite', 'challenges classroom despite many', 'challenges face', 'challenges face looking', 'challenges face looking keep', 'challenges students', 'challenging', 'chance', 'chances', 'change', 'change students', 'change world', 'changed', 'changes', 'changing', 'chapter', 'chapter books', 'character', 'characters', 'charge', 'chart', 'chart paper', 'charter', 'charter school', 'charts', 'check', 'chemistry', 'chicago', 'child', 'childhood', 'children', 'children come', 'children learn', 'children love', 'children need', 'children not', 'children they', 'choice', 'choices', 'choose', 'choosing', 'chose', 'chosen', 'chrome', 'chrome books', 'chromebook', 'chromebooks', 'chromebooks classroom', 'circle', 'circles', 'circumstances', 'citizens', 'city', 'city school', 'class', 'class consists', 'class full', 'class made', 'class my', 'class my students', 'class nannan', 'class not', 'class set', 'class students', 'class the', 'class they', 'class this', 'class time', 'class we', 'class would', 'classes', 'classic', 'classmates', 'classroom', 'classroom able', 'classroom allow', 'classroom allow students', 'classroom also', 'classroom come', 'classroom community', 'classroom consists', 'classroom day', 'classroom despite', 'classroom despite many', 'classroom despite many challenges', 'classroom environment', 'classroom every', 'classroom every day', 'classroom every day full', 'classroom filled', 'classroom focus', 'classroom focus potential', 'classroom focus potential growth', 'classroom full', 'class

room help', 'classroom in', 'classroom it', 'classroom learning', 'classroom library', 'classroom make', 'classroom many', 'classroom my', 'classroom my students', 'classroom nan nan', 'classroom need', 'classroom not', 'classroom one', 'classroom our', 'classroom place', 'classroom provide', 'classroom rug', 'classroom safe', 'classroom school', 'classroom set', 'classroom setting', 'classroom students', 'classroom students able', 'classroom supplies', 'classroom the', 'classroom these', 'classroom they', 'classroom this', 'classroom use', 'classroom want', 'classroom we', 'classroom well', 'classroom with', 'classroom work', 'classroom would', 'classroom year', 'classrooms', 'clay', 'clean', 'clear', 'clearly', 'clever', 'climate', 'clipboards', 'close', 'closer', 'clothes', 'club', 'clubs', 'co', 'coach', 'code', 'coding', 'cognitive', 'cold', 'collaborate', 'collaborating', 'collaboration', 'collaborative', 'collaboratively', 'collect', 'collection', 'college', 'college career', 'college career ready', 'color', 'color printer', 'colored', 'colored pencils', 'colorful', 'colors', 'com', 'combination', 'come', 'come alive', 'come class', 'come classroom', 'come different', 'come different backgrounds', 'come diverse', 'come diverse backgrounds', 'come families', 'come high', 'come high poverty', 'come homes', 'come life', 'come low', 'come low income', 'come low income families', 'come low income homes', 'come low socioeconomic', 'come many', 'come many different', 'come nannan', 'come school', 'come school day', 'come school eager', 'come school eager learn', 'come school every', 'come school every day', 'come school everyday', 'come school ready', 'come school ready learn', 'come single', 'come single parent', 'come together', 'come variety', 'come variety backgrounds', 'come variety different', 'come various', 'come wide', 'comes', 'comfort', 'comfortable', 'comfortable learning', 'comfortable place', 'comfortably', 'comfy', 'coming', 'coming school', 'committed', 'common', 'common core', 'common core standards', 'communicate', 'communication', 'communication skills', 'communities', 'community', 'community learners', 'community my', 'community our', 'community school', 'community students', 'community the', 'community we', 'compare', 'compassion', 'compassionate', 'compete', 'competition', 'competitions', 'competitive', 'complete', 'complete work', 'completed', 'completely', 'completing', 'complex', 'component', 'components', 'composition', 'comprehend', 'comprehension', 'comprehension skills', 'comprised', 'computer', 'computer lab', 'computer programming', 'computer science', 'computers', 'computers classroom', 'concentrate', 'concentration', 'concept', 'concepts', 'concrete', 'conditions', 'conductive', 'conduct', 'confidence', 'confident', 'connect', 'connected', 'connecting', 'connection', 'connections', 'consider', 'consideration', 'considered', 'considering', 'consist', 'consistent', 'consistently', 'consists', 'constant', 'constantly', 'construction', 'contained', 'content', 'content areas', 'continually', 'continue', 'continue path', 'continue path academic', 'continue path academic excellence', 'continuously', 'contribute', 'control', 'control experience', 'control experience school', 'control experience school day', 'control home', 'control home lives', 'control home lives however', 'control learning', 'conversation', 'conversations', 'cooking', 'cool', 'cooperation', 'cooperative', 'cooperative learning', 'cooperatively', 'coordination', 'copies', 'copy', 'core', 'core muscles', 'core standards', 'core strength', 'corner', 'correct', 'cost', 'could', 'could not', 'could use', 'count', 'counting', 'countries', 'country', 'county', 'couple', 'course', 'courses', 'cover', 'covers', 'cozy', 'craft', 'crave', 'crayons', 'create', 'create classroom', 'create environment', 'create learning', 'create projects', 'created', 'creates', 'creating', 'creation', 'creations', 'creative', 'creative meaningful', 'creative meaningful learning', 'creative meaningful learning experiences', 'creative positive', 'creative positive way', 'creative positive way hopeful', 'creatively', 'creativity', 'crime', 'critical', 'critical thinkers', 'critical thinking', 'critical thinking skills', 'critically', 'cross', 'crucial', 'cultural', 'cultural backgrounds', 'culturally', 'culturally diverse', 'culture', 'cultures', 'curiosity', 'curious', 'current', 'current events', 'currently', 'curricular', 'curriculum', 'cushions', 'cut', 'cuts', 'cutting', 'cycle', 'daily', 'daily basis', 'daily lives', 'dance', 'dancing', 'dash', 'data', 'date', 'day', 'day by', 'day classroom', 'day day', 'day eager', 'day excited', 'day full', 'day it', 'day learning', 'day long', 'day many', 'day my', 'day my students', 'day nannan', 'day not', 'day our', 'day ready', 'day ready learn', 'day school', 'day students', 'day the', 'day these', 'day they', 'day this', 'day want', 'day we', 'days', 'deal', 'decided', 'decisions', 'decrease', 'dedicated', 'dedication', 'deep', 'deeper', 'deeply', 'definitely', 'delays', 'demand', 'demands', 'demonstrate', 'department', 'depth', 'describe', 'deserve', 'deserve best', 'deserves', 'deserving', 'design', 'designated', 'designed', 'designing', 'designs', 'desire', 'desire learn', 'desk', 'desks', 'desks chairs', 'desktop', 'desperately', 'despite', 'despite challenges', 'despite many', 'despite many challenges', 'despite many challenges face', 'despite many hardships', 'details', 'determination', 'determine', 'determined', 'develop', 'develop love', 'develop skills', 'developed', 'developing', 'development', 'developmental', 'developmentally', 'device', 'devices', 'diagnosed', 'difference', 'difference lives', 'difference students', 'differences', 'different', 'different backgrounds', 'different countries', 'different cultures', 'different languages', 'different learning', 'different learning styles', 'different levels', 'different seating', 'different types', 'different ways', 'differentiate', 'differentiated', 'differentiated instruction', 'differentiation', 'differently', 'difficult', 'difficult students', 'difficult time', 'difficulties', 'difficulty', 'digital', 'direct', 'direction', 'directions', 'directly', 'disabilities', 'disability', 'disabled', 'disadvantage', 'disadvantaged', 'discover', 'discovered', 'discoveries', 'discovering', 'discovery', 'discuss', 'discussing', 'disc

ussion', 'discussions', 'disorder', 'disorders', 'display', 'displayed', 'distracted', 'distracting', 'distraction', 'distractions', 'district', 'district students', 'district students faced', 'district students faced several', 'districts', 'dive', 'diverse', 'diverse backgrounds', 'diverse group', 'diverse group students', 'diverse learners', 'diverse population', 'diverse student', 'diverse students', 'diversity', 'do', 'do remember', 'documents', 'document', 'document camera', 'documents', 'donate', 'donated', 'donating', 'donating project', 'donation', 'donation help', 'donation project', 'donations', 'donations help', 'donations project', 'donations project help', 'done', 'donors', 'donors choose', 'donorschoose', 'door', 'door classroom', 'door classroom focus', 'door classroom focus potential', 'doors', 'dot', 'dr', 'dr seuss', 'dramatic', 'dramatic play', 'draw', 'drawing', 'dream', 'dreamers', 'dreams', 'drive', 'driven', 'drum', 'drums', 'dry', 'dry erase', 'dry erase boards', 'dry erase markers', 'dual', 'dual language', 'due', 'due lack', 'durable', 'during', 'dynamic', 'each', 'each child', 'each day', 'each student', 'each year', 'eager', 'eager learn', 'eager learn new', 'eager learn they', 'eager learners', 'eagerness', 'earliest', 'earliest learners', 'early', 'early age', 'early childhood', 'early life', 'earn', 'earth', 'ease', 'easel', 'easier', 'easily', 'east', 'easy', 'easy access', 'eat', 'eating', 'economic', 'economic backgrounds', 'economic status', 'economically', 'economically disadvantaged', 'ed', 'edit', 'editing', 'educate', 'education', 'education class', 'education classroom', 'education my', 'education possible', 'education students', 'education teacher', 'educational', 'educational apps', 'educational experience', 'educator', 'educators', 'effect', 'effective', 'effectively', 'effects', 'efficient', 'efficiently', 'effort', 'efforts', 'eight', 'eighth', 'either', 'ela', 'elective', 'electronic', 'elementary', 'elementary school', 'elements', 'eligible', 'eligible free', 'eliminate', 'ell', 'ell students', 'else', 'embrace', 'emotional', 'emotionally', 'emotions', 'empathy', 'emphasis', 'empower', 'empower students', 'empowered', 'empowering', 'empowering students', 'enable', 'enable students', 'encounter', 'encourage', 'encourage students', 'encouraged', 'encouragement', 'encourages', 'encouraging', 'end', 'end day', 'end school', 'end school year', 'end year', 'endless', 'ends', 'ends meet', 'energetic', 'energy', 'engage', 'engage learning', 'engage students', 'engaged', 'engaged learning', 'engagement', 'engages', 'engaging', 'engaging activities', 'engaging learning', 'engaging students', 'engaging way', 'engineering', 'engineering math', 'engineers', 'english', 'english language', 'english language arts', 'english language learners', 'english learners', 'english second', 'english second language', 'english spanish', 'enhance', 'enhance learning', 'enhance students', 'enjoy', 'enjoy coming', 'enjoy learning', 'enjoy reading', 'enjoy working', 'enjoyable', 'enjoyed', 'enjoying', 'enjoyment', 'enough', 'enrich', 'enriching', 'enrichment', 'enrolled', 'enrollment', 'ensure', 'ensure students', 'enter', 'enter classroom', 'entering', 'enthusiasm', 'enthusiastic', 'enthusiastic learners', 'entire', 'entire class', 'entire school', 'environment', 'environment my', 'environment nannan', 'environment students', 'environment the', 'environmental', 'environments', 'envision', 'equal', 'equipment', 'equipped', 'erase', 'erase boards', 'erase markers', 'erasers', 'escape', 'esl', 'esl students', 'esol', 'especially', 'essays', 'essential', 'esteem', 'etc', 'ethnic', 'ethnic backgrounds', 'ethnically', 'even', 'even though', 'event', 'events', 'eventually', 'ever', 'ever changing', 'every', 'every child', 'every day', 'every day full', 'every day my', 'every day students', 'every day they', 'every morning', 'every one', 'every opportunity', 'every single', 'every single day', 'every student', 'every year', 'every day', 'everyone', 'everything', 'everything need', 'evidence', 'exactly', 'example', 'examples', 'excel', 'excellence', 'excellent', 'exceptional', 'excess', 'excess energy', 'excited', 'excited come', 'excited come school', 'excited learn', 'excited learning', 'excited reading', 'excited school', 'excited see', 'excitement', 'excitement learning', 'exciting', 'exercise', 'exercise balls', 'exercises', 'exercising', 'expand', 'expand knowledge', 'expanding', 'expect', 'expectations', 'expected', 'expensive', 'experience', 'experience school', 'experience school day', 'experience students', 'experienced', 'experience s', 'experiences many', 'experiences my', 'experiences my students', 'experiences student s', 'experiencing', 'experiment', 'experiments', 'explain', 'exploration', 'explore', 'explore learn', 'explore new', 'explore world', 'exploring', 'expose', 'expose students', 'exposed', 'exposing', 'exposure', 'express', 'expressed', 'expression', 'extend', 'extended', 'extra', 'extra support', 'extremely', 'eye', 'eyes', 'fabulous', 'face', 'face challenges', 'face looking', 'face looking keep', 'face looking keep things', 'face many', 'face many challenges', 'faced', 'faced many', 'faced several', 'faced several challenges', 'faced several challenges classroom', 'faces', 'facilitate', 'facing', 'fact', 'factors', 'facts', 'fair', 'fairy', 'fall', 'fall love', 'falling', 'familiar', 'families', 'families not', 'family', 'family members', 'fantastic', 'far', 'fast', 'faster', 'favorite', 'fear', 'features', 'feed', 'feedback', 'feel', 'feel comfortable', 'feel like', 'feel safe', 'feel successful', 'feeling', 'feelings', 'feels', 'feet', 'felt', 'fiction', 'fidget', 'field', 'field trips', 'fields', 'fifth', 'fifth grade', 'fifth grade students', 'fifth graders', 'figure', 'fill', 'filled', 'film', 'final', 'finally', 'financial', 'financially', 'find', 'find ways', 'finding', 'findings', 'fine', 'fine motor', 'fine motor skills', 'fingertips', 'finish', 'finished', 'fire', 'first', 'first day', 'first day school', 'first generation', 'first grade', 'first grade classroom', 'first grade students', 'first graders', 'first hand', 'first time', 'first year', 'first year teacher', 'first year teaching', 'fit', 'fitness', 'fits', 'five', 'five six', 'five year', 'flexibility', 'flexible', 'flexible seating', 'flexible seating classroom', 'flexible seating options', 'fl

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me area', 'income families', 'income high', 'income high poverty', 'income high poverty school', 'income homes', 'income households', 'income school', 'income students', 'incorporate', 'incorporated', 'incorporating', 'increase', 'increase reading', 'increase student', 'increase students', 'increased', 'increases', 'increasing', 'incredible', 'incredibly', 'independence', 'independent', 'independent learning', 'independent reading', 'independent work', 'independently', 'individual', 'individual needs', 'individual student', 'individualized', 'individually', 'individuals', 'indoor', 'indoor recess', 'information', 'informational', 'initiative', 'ink', 'inner', 'inner city', 'inner city school', 'innovation', 'innovative', 'input', 'inquiry', 'inquiry based', 'inquisitive', 'inside', 'inside classroom', 'inside outside', 'inside outside classroom', 'inspiration', 'inspire', 'inspire even', 'inspire students', 'inspired', 'inspired project', 'inspires', 'inspiring', 'instead', 'instill', 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de students opportunity', 'provided', 'provides', 'provides students', 'providing', 'providing students', 'public', 'public school', 'publish', 'pull', 'purchase', 'purchased', 'purchasing', 'purpose', 'purposes', 'pursue', 'push', 'put', 'putting', 'puzzles', 'qualify', 'qualify free', 'qualify free reduced', 'qualify free reduced lunch', 'quality', 'quality education', 'question', 'questions', 'quick', 'quickly', 'quiet', 'quietly', 'quite', 'quote', 'race', 'raise', 'raised', 'raised single', 'raised single parent', 'raised single parent households', 'range', 'ranging', 'rarely', 'rate', 'rates', 'rather', 'reach', 'reach full', 'reach full potential', 'reach goals', 'reach students', 'reaching', 'read', 'read aloud', 'read alouds', 'read book', 'read books', 'read independently', 'read love', 'read the', 'read they', 'read write', 'reader', 'readers', 'readers writers', 'readily', 'readily available', 'readiness', 'reading', 'reading book', 'reading books', 'reading comprehension', 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eative', 'simply', 'since', 'since students', 'sing', 'singing', 'single', 'single day', 'single parent', 'single parent homes', 'single parent households', 'sit', 'sit floor', 'sit still', 'site', 'sites', 'sitting', 'sitting desk', 'sitting still', 'situation', 'situations', 'six', 'six year', 'sixth', 'sixth grade', 'size', 'sizes', 'skill', 'skills', 'skills also', 'skills help', 'skills my', 'skills my students', 'skills nannan', 'skills necessary', 'skills need', 'skills needed', 'skills students', 'skills the', 'skills thes e', 'skills they', 'skills we', 'skills well', 'small', 'small community', 'small group', 'small group instruction', 'small groups', 'small rural', 'small school', 'small town', 'smaller', 'smart', 'smile', 'smile face', 'smiles', 'smiles faces', 'smiling', 'snack', 'snacks', 'so', 'so many', 'soar', 'soccer', 'social', 'social emotional', 'social skills', 'social studies', 'socially', 'society', 'socio', 'socio economic', 'socio economic bac kgrounds', 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ve', 'students moving', 'students much', 'students must', 'students my', 'students my stu  
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ne', 'students opportunities', 'students opportunity', 'students opportunity learn', 'stu  
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, 'students play', 'students practice', 'students qualify', 'students qualify free', 'stu  
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reduced', 'students requested', 'students require', 'students research', 'students school  
, 'students school come', 'students school receive', 'students second', 'students see',  
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tudents special', 'students special needs', 'students spend', 'students start', 'students  
stay', 'students still', 'students strive', 'students struggle', 'students struggling', '  
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nts take', 'students teach', 'students teachers', 'students technology', 'students the',  
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s walk classroom every', 'students want', 'students want learn', 'students we', 'students  
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work hard', 'students work together', 'students working', 'students world', 'students wou  
ld', 'students would able', 'students would benefit', 'students would like', 'students wo  
uld love', 'students write', 'students year', 'students years', 'students studies', 'study', 'stud  
ying', 'style', 'styles', 'subject', 'subject areas', 'subjects', 'subscription', 'subtra  
ction', 'suburban', 'succeed', 'success', 'success my', 'success nannan', 'success studen  
ts', 'successes', 'successful', 'successful classroom', 'successful school', 'successfull  
y', 'suggested', 'summer', 'super', 'supplement', 'supplies', 'supplies help', 'supplies  
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ables', 'tablet', 'tablets', 'tackle', 'tactile', 'take', 'take care', 'take granted', 't  
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rget', 'task', 'tasks', 'taught', 'teach', 'teach low', 'teach school', 'teach students',  
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the children', 'the classroom', 'the donations', 'the donations project', 'the first', 't  
he goal', 'the ipad', 'the ipads', 'the items', 'the kids', 'the majority', 'the majority  
students', 'the materials', 'the new', 'the school', 'the student', 'the students', 'the  
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lies', 'the use', 'the wobble', 'their', 'theme', 'themes', 'then', 'therapy', 'there', '  
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ls', 'these materials allow', 'these materials help', 'these resources', 'these stools',  
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w', 'this allows', 'this also', 'this donation', 'this first', 'this first year', 'this h  
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oughts', 'three', 'thrilled', 'thrive', 'through', 'throughout', 'throughout day', 'throu  
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materials', 'with new', 'within', 'within classroom', 'within school', 'without', 'wobble', 'wobble chairs', 'wobble cushions', 'wobble stools', 'wonder', 'wonderful', 'wonderful group', 'wonderful students', 'word', 'words', 'work', 'work best', 'work collaboratively', 'work groups', 'work hard', 'work independently', 'work my', 'work nannan', 'work school', 'work small', 'work small groups', 'work space', 'work students', 'work the', 'work they', 'work time', 'work title', 'work title school', 'work together', 'work well', 'worked', 'workers', 'working', 'working hard', 'working small', 'working students', 'working together', 'works', 'works best', 'worksheets', 'workshop', 'world', 'world around', 'world around they', 'world live', 'world my', 'world my students', 'world nannan', 'world problems', 'world students', 'world technology', 'world the', 'world they', 'worlds', 'worry', 'worth', 'would', 'would able', 'would allow', 'would allow students', 'would also', 'would benefit', 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## Encoding Text Feature using TFIDF : Essay

In [41]:

```
feature_names_set2 = []
vectorizer = TfidfVectorizer(min_df=10,ngram_range=(1,4), max_features=5000)

X_train_essay_tfidf = vectorizer.fit_transform(X_train['essay'].values)
X_cv_essay_tfidf = vectorizer.transform(X_cv['essay'].values)
X_test_essay_tfidf = vectorizer.transform(X_test['essay'].values)

print("After vectorizations")
print(X_train_essay_tfidf.shape, y_train.shape)
print(X_cv_essay_tfidf.shape, y_cv.shape)
print(X_test_essay_tfidf.shape, y_test.shape)
feature_names_set2.extend(vectorizer.get_feature_names())
print(feature_names_set2)
```

After vectorizations

```
(22445, 5000) (22445,)
(11055, 5000) (11055,)
(16500, 5000) (16500,)
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different', 'students come diverse', 'students come diverse backgrounds', 'students come homes', 'students come low', 'students come low income', 'students come many', 'students come many different', 'students come school', 'students come variety', 'students come variety backgrounds', 'students come various', 'students comfortable', 'students coming', 'students complete', 'students constantly', 'students continue', 'students could', 'students create', 'students creative', 'students creative meaningful', 'students creative meaningful learning', 'students curious', 'students currently', 'students daily', 'students deserve', 'students develop', 'students different', 'students disabilities', 'students diverse', 'students diverse group', 'students eager', 'students eager learn', 'students economically', 'students encouraged', 'students energetic', 'students engage', 'students engaged', 'students english', 'students english language', 'students english language learners', 'students enjoy', 'students enter', 'students enter classroom', 'students enthusiastic', 'students especially', 'students even', 'students every', 'students excited', 'students expected', 'students experience', 'students explore', 'students exposed', 'students extremely', 'students face', 'students face many', 'students face many challenges', 'students faced', 'students faced several', 'students faced several challenges', 'students families', 'students feel', 'students feel comfortable', 'students find', 'students first', 'students focus', 'students free', 'students free reduced', 'students free reduced lunch', 'students full', 'students fun', 'students future', 'students gain', 'students get', 'students given', 'students go', 'students grade', 'students grades', 'students great', 'students group', 'students grow', 'students hands', 'students hard', 'students hard working', 'students help', 'students high', 'students highly', 'students improve', 'students in', 'students increase', 'students interested', 'students sit', 'students keep', 'students kindergarten', 'students know', 'students lack', 'students learn', 'students learn best', 'students learning', 'students like', 'students limited', 'students listen', 'students live', 'students live poverty', 'students lives', 'students living', 'students look', 'students look forward', 'students love', 'students love learn', 'students love learning', 'students love read', 'students love reading', 'students low', 'students low income', 'students make', 'students many', 'students many students', 'students materials', 'students may', 'students meet', 'students motivated', 'students move', 'students moving', 'students much', 'students must', 'students my', 'students my students', 'students nannan', 'students need', 'students needs', 'students never', 'students new', 'students no', 'students not', 'students not access', 'students often', 'students one', 'students opportunities', 'students opportunity', 'students opportunity learn', 'students our', 'students parents', 'students part', 'students participate', 'students place', 'students play', 'students practice', 'students qualify', 'students qualify free', 'students qualify free reduced', 'students range', 'students reach', 'students read', 'students reading', 'students ready', 'students really', 'students receive', 'students receive free', 'students receive free breakfast', 'students receive free lunch', 'students receive free reduced', 'students receiving', 'students receiving free', 'students receiving free reduced', 'students requested', 'students require', 'students research', 'students school', 'students school come', 'students school receive', 'students second', 'students see', 'students share', 'students show', 'students sit', 'students small', 'students speak', 'students special', 'students special needs', 'students spend', 'students start', 'students stay', 'students still', 'students strive', 'students struggle', 'students struggling', 'students students', 'students succeed', 'students success', 'students successful', 'students take', 'students teach', 'students teachers', 'students technology', 'students the', 'students these', 'students they', 'students think', 'students this', 'students thrive', 'students time', 'students tools', 'students truly', 'students understand', 'students unique', 'students use', 'students use materials', 'students using', 'students utilize', 'students variety', 'students various', 'students walk', 'students walk classroom', 'student



s walk classroom every', 'students want', 'students want learn', 'students we', 'students well', 'students wide', 'students with', 'students wonderful', 'students work', 'students work hard', 'students work together', 'students working', 'students world', 'students would', 'students would able', 'students would benefit', 'students would like', 'students would love', 'students write', 'students year', 'students years', 'studies', 'study', 'studying', 'style', 'styles', 'subject', 'subject areas', 'subjects', 'subscription', 'subtraction', 'suburban', 'succeed', 'success', 'success my', 'success nannan', 'success students', 'successes', 'successful', 'successful classroom', 'successful school', 'successfully', 'suggested', 'summer', 'super', 'supplement', 'supplies', 'supplies help', 'supplies need', 'supplies needed', 'supplies students', 'supply', 'support', 'support learning', 'support students', 'supported', 'supporting', 'supportive', 'supports', 'sure', 'sure students', 'surface', 'surrounded', 'surrounding', 'sweet', 'system', 'systems', 'table', 'tables', 'tablet', 'tablets', 'tackle', 'tactile', 'take', 'take care', 'take granted', 'take home', 'take ownership', 'take ownership learning', 'take place', 'take pride', 'take turns', 'taken', 'takes', 'taking', 'talented', 'talents', 'talk', 'talking', 'tape', 'target', 'task', 'tasks', 'taught', 'teach', 'teach low', 'teach school', 'teach students', 'teach title', 'teach title school', 'teacher', 'teacher low', 'teacher low income', 'teacher low income high', 'teacher students', 'teacher want', 'teachers', 'teachers students', 'teaches', 'teaching', 'teaching students', 'team', 'teams', 'teamwork', 'tech', 'techniques', 'technological', 'technologically', 'technology', 'technology classroom', 'technology daily', 'technology engineering', 'technology engineering math', 'technology help', 'technology home', 'technology my', 'technology nannan', 'technology not', 'technology skills', 'technology students', 'technology the', 'technology they', 'tell', 'telling', 'ten', 'tend', 'term', 'terms', 'test', 'test scores', 'testing', 'tests', 'texas', 'text', 'textbook', 'textbooks', 'texts', 'thank', 'thank advance', 'thank considering', 'thank much', 'thank nannan', 'thanks', 'that', 'the', 'the addition', 'the best', 'the books', 'the children', 'the classroom', 'the donations', 'the donations project', 'the first', 'the goal', 'the ipad', 'the ipads', 'the items', 'the kids', 'the majority', 'the majority students', 'the materials', 'the new', 'the school', 'the student', 'the students', 'the students able', 'the students class', 'the students classroom', 'the students come', 'the students love', 'the students school', 'the students use', 'the students work', 'the supplies', 'the use', 'the wobble', 'their', 'theme', 'themes', 'then', 'therapy', 'there', 'there many', 'there no', 'therefore', 'these', 'these activities', 'these books', 'these chairs', 'these children', 'these donations', 'these items', 'these kids', 'these materials', 'these materials allow', 'these materials help', 'these resources', 'these stools', 'these students', 'these students come', 'these supplies', 'these things', 'they', 'they able', 'they also', 'they also able', 'they always', 'they attend', 'they come', 'they come school', 'they curious', 'they deserve', 'they eager', 'they eager learn', 'they enjoy', 'they excited', 'they get', 'they great', 'they hard', 'they know', 'they learn', 'they learning', 'they like', 'they like move', 'they live', 'they love', 'they love learn', 'they need', 'they not', 'they often', 'they take', 'they use', 'they want', 'they work', 'they work hard', 'they would', 'thing', 'thing common', 'things', 'things may', 'things simple', 'things simple provide', 'things simple provide students', 'things they', 'think', 'think critically', 'thinkers', 'thinking', 'thinking skills', 'third', 'third grade', 'third grade students', 'third graders', 'thirst', 'thirst knowledge', 'this', 'this allow', 'this allows', 'this also', 'this donation', 'this first', 'this first year', 'this help', 'this makes', 'this means', 'this not', 'this project', 'this project allow', 'this project allow students', 'this project help', 'this project make', 'this project would', 'this school', 'this would', 'this year', 'those', 'though', 'thought', 'thoughtful', 'thoughts', 'three', 'thrilled', 'thrive', 'through', 'throughout', 'throughout day', 'throughout school', 'throughout school day', 'throughout school year', 'throughout year', 'thus', 'tight', 'tiles', 'time', 'time day', 'time kids', 'time learning', 'time my', 'time my students', 'time nannan', 'time school', 'time sitting', 'time students', 'time the', 'time they', 'time this', 'times', 'times students', 'tired', 'title', 'title one', 'title one school', 'title school', 'title school 100', 'title school many', 'title school students', 'titles', 'to', 'today', 'today world', 'together', 'told', 'tomorrow', 'took', 'tool', 'tools', 'tools help', 'tools need', 'top', 'topic', 'topics', 'total', 'touch', 'tough', 'toward', 'towards', 'town', 'toys', 'track', 'traditional', 'traditional classroom', 'training', 'transfer', 'transform', 'transient', 'transition', 'transitional', 'trauma', 'travel', 'treat', 'tremendous', 'tremendously', 'tried', 'trip', 'trips', 'trouble', 'true', 'truly', 'truly believe', 'try', 'try best', 'try make', 'try new', 'try new things', 'trying', 'turn', 'turning', 'turns', 'tv', 'twenty', 'two', 'two years', 'type', 'types', 'typical', 'typical day', 'typical day classroom', 'typically', 'typing', 'ultimate', 'ultimately', 'unable', 'uncomfortable', 'understand', 'understanding', 'unfortunately', 'unfortunately not', 'unique', 'unit', 'united', 'united states', 'units', 'university', 'upcoming', 'updated', 'upon', 'upper', 'urban', 'urban area', 'urban school', 'us', 'use', 'use books', 'use chromebooks', 'use classroom', 'use computers', 'use daily', 'use hands', 'use ipad', 'use ipads', 'use materials', 'use new', 'use tablets', 'use technology', 'used', 'used classroom', 'used daily', 'used help', 'used students', 'useful', 'uses', 'using', 'using ipads', 'using technology', 'usually', 'utilize', 'utilized', 'utilizing', 'valuable', 'value', 'valued', 'values', 'varied', 'variety', 'variety background', 'variety books', 'variety different', 'variety learning', 'variety seating', 'variety

nds', 'variety books', 'variety different', 'variety learning', 'variety seating', 'varie  
 ty ways', 'various', 'various backgrounds', 'vary', 'varying', 'vast', 'vegetables', 'ver  
 bal', 'via', 'vibrant', 'video', 'videos', 'view', 'violence', 'virtual', 'vision', 'visi  
 t', 'visual', 'visual learners', 'visualize', 'visually', 'visuals', 'vital', 'vocabulary  
 ', 'voice', 'voices', 'volleyball', 'wait', 'wait see', 'waiting', 'walk', 'walk classroo  
 m', 'walk classroom every', 'walk classroom every day', 'walk door', 'walk door classroom  
 ', 'walk door classroom focus', 'walking', 'walks', 'walks life', 'wall', 'walls', 'want'  
 , 'want able', 'want best', 'want classroom', 'want create', 'want give', 'want give stud  
 ents', 'want help', 'want know', 'want learn', 'want make', 'want make sure', 'want provi  
 de', 'want provide students', 'want read', 'want school', 'want see', 'want students', 'w  
 ant students able', 'want use', 'wanted', 'wanting', 'wants', 'warm', 'washington', 'wast  
 e', 'watch', 'watching', 'water', 'water bottles', 'way', 'way get', 'way help', 'way hop  
 eful', 'way hopeful inspire', 'way learn', 'way my', 'way nannan', 'way students', 'ways'  
 , 'ways help', 'ways learn', 'ways students', 'we', 'we able', 'we also', 'we believe', '  
 we currently', 'we diverse', 'we high', 'we know', 'we learn', 'we live', 'we located', '  
 we love', 'we many', 'we need', 'we not', 'we school', 'we small', 'we spend', 'we strive  
 ', 'we students', 'we title', 'we title school', 'we use', 'we want', 'we work', 'we work  
 hard', 'we working', 'we would', 'wear', 'weather', 'web', 'website', 'websites', 'week',  
 'weekend', 'weekly', 'weeks', 'weight', 'welcome', 'welcoming', 'well', 'well nannan', 'w  
 ell rounded', 'well students', 'wellness', 'went', 'west', 'what', 'what better', 'whatev  
 er', 'when', 'when students', 'whenever', 'whether', 'while', 'while students', 'white',  
 'white board', 'white boards', 'whiteboard', 'whiteboards', 'who', 'whole', 'whole class'  
 , 'whole group', 'whole group instruction', 'whole new', 'whose', 'why', 'wide', 'wide ra  
 nge', 'wide variety', 'wiggle', 'wiggles', 'wiggling', 'wiggly', 'willing', 'willingness'  
 , 'win', 'winter', 'wireless', 'wish', 'with', 'with help', 'with materials', 'with new',  
 'within', 'within classroom', 'within school', 'without', 'wobble', 'wobble chairs', 'wob  
 ble cushions', 'wobble stools', 'wonder', 'wonderful', 'wonderful group', 'wonderful stud  
 ents', 'word', 'words', 'work', 'work best', 'work collaboratively', 'work groups', 'work  
 hard', 'work independently', 'work my', 'work nannan', 'work school', 'work small', 'work  
 small groups', 'work space', 'work students', 'work the', 'work they', 'work time', 'work  
 title', 'work title school', 'work together', 'work well', 'worked', 'workers', 'working'  
 , 'working hard', 'working small', 'working students', 'working together', 'works', 'work  
 s best', 'worksheets', 'workshop', 'world', 'world around', 'world around they', 'world l  
 ive', 'world my', 'world my students', 'world nannan', 'world problems', 'world students'  
 , 'world technology', 'world the', 'world they', 'worlds', 'worry', 'worth', 'would', 'wo  
 uld able', 'would allow', 'would allow students', 'would also', 'would benefit', 'would g  
 ive', 'would great', 'would greatly', 'would help', 'would help students', 'would like',  
 'would like provide', 'would like students', 'would love', 'would love able', 'would make  
 ', 'would not', 'would provide', 'would use', 'would used', 'write', 'writer', 'writers',  
 'writing', 'writing math', 'writing skills', 'written', 'year', 'year long', 'year many',  
 'year my', 'year my students', 'year nannan', 'year not', 'year old', 'year old students'  
 , 'year olds', 'year school', 'year students', 'year teacher', 'year teaching', 'year the  
 ', 'year they', 'year this', 'year want', 'year we', 'year would', 'year year', 'yearbook  
 ', 'years', 'years ago', 'years come', 'years old', 'yes', 'yet', 'yoga', 'yoga balls', '  
 yoga mats', 'york', 'you', 'young', 'young age', 'young children', 'young learners', 'you  
 ng minds', 'young people', 'young students', 'younger', 'your', 'your donation', 'your do  
 nation help', 'your donations', 'your generous', 'your generous donation', 'youth']

## 1.4 Make Data Model Ready: encoding numerical, categorical features

### Encoding Categorical Features : teacher\_prefix

In [42]:

```

vectorizer = CountVectorizer(binary=True)

X_train_teacher_prefix_one = vectorizer.fit_transform(X_train['teacher_prefix'].values)
X_cv_teacher_prefix_one = vectorizer.transform(X_cv['teacher_prefix'].values)
X_test_teacher_prefix_one =vectorizer.transform(X_test['teacher_prefix'].values)

print("After vectorization")
print(X_train_teacher_prefix_one.shape,y_train.shape)
print(X_cv_teacher_prefix_one.shape,y_cv.shape)
print(X_test_teacher_prefix_one.shape,y_test.shape)
print(vectorizer.get_feature_names())
feature_names_set1.extend(vectorizer.get_feature_names())
feature_names_set2.extend(vectorizer.get_feature_names())
    
```

After vectorization

100000 51 100000 51

```
(22445, 5) (22445,)
(11055, 5) (11055,)
(16500, 5) (16500,)
['dr', 'mr', 'mrs', 'ms', 'teacher']
```

## Encoding Categorical Features : project\_grade\_category

In [43]:

```
vectorizer = CountVectorizer(binary=True)

X_train_project_grade_catg_one = vectorizer.fit_transform(X_train['project_grade_category'].values)
X_cv_project_grade_catg_one = vectorizer.transform(X_cv['project_grade_category'].values)
X_test_project_grade_catg_one = vectorizer.transform(X_test['project_grade_category'].values)

print("After vectorization")
print(X_train_project_grade_catg_one.shape, y_train.shape)
print(X_cv_project_grade_catg_one.shape, y_cv.shape)
print(X_test_project_grade_catg_one.shape, y_test.shape)
print(vectorizer.get_feature_names())
feature_names_set1.extend(vectorizer.get_feature_names())
feature_names_set2.extend(vectorizer.get_feature_names())
```

```
After vectorization
(22445, 4) (22445,)
(11055, 4) (11055,)
(16500, 4) (16500,)
['grades_3_5', 'grades_6_8', 'grades_9_12', 'grades_prek_2']
```

## Encoding Categorical Features : school\_state

In [44]:

```
vectorizer = CountVectorizer(binary=True)

X_train_school_state_one = vectorizer.fit_transform(X_train['school_state'].values)
X_cv_school_state_one = vectorizer.transform(X_cv['school_state'].values)
X_test_school_state_one = vectorizer.transform(X_test['school_state'].values)

print("After vectorization")
print(X_train_school_state_one.shape, y_train.shape)
print(X_cv_school_state_one.shape, y_cv.shape)
print(X_test_school_state_one.shape, y_test.shape)
print(vectorizer.get_feature_names())
feature_names_set1.extend(vectorizer.get_feature_names())
feature_names_set2.extend(vectorizer.get_feature_names())
```

```
After vectorization
(22445, 51) (22445,)
(11055, 51) (11055,)
(16500, 51) (16500,)
['ak', 'al', 'ar', 'az', 'ca', 'co', 'ct', 'dc', 'de', 'fl', 'ga', 'hi', 'ia', 'id', 'il', 'in', 'ks', 'ky', 'la', 'ma', 'md', 'me', 'mi', 'mn', 'mo', 'ms', 'mt', 'nc', 'nd', 'ne', 'nh', 'nj', 'nm', 'nv', 'ny', 'oh', 'ok', 'or', 'pa', 'ri', 'sc', 'sd', 'tn', 'tx', 'ut', 'va', 'vt', 'wa', 'wi', 'wv', 'wy']
```

## Encoding Categorical Features : clean\_categories

In [45]:

```
vectorizer = CountVectorizer(binary=True)

X_train_clean_categories_one = vectorizer.fit_transform(X_train['clean_categories'].values)
X_cv_clean_categories_one = vectorizer.transform(X_cv['clean_categories'].values)
```

```
X_test_clean_categories_one =vectorizer.transform(X_test['clean_categories'].values)
```

```
print("After vectorization")
print(X_train_clean_categories_one.shape,y_train.shape)
print(X_cv_clean_categories_one.shape,y_cv.shape)
print(X_test_clean_categories_one.shape,y_test.shape)
print(vectorizer.get_feature_names())
feature_names_set1.extend(vectorizer.get_feature_names())
feature_names_set2.extend(vectorizer.get_feature_names())
```

```
After vectorization
(22445, 9) (22445,)
(11055, 9) (11055,)
(16500, 9) (16500,)
['appliedlearning', 'care_hunger', 'health_sports', 'history_civics', 'literacy_language',
 'math_science', 'music_arts', 'specialneeds', 'warmth']
```

## Encoding Categorical Features : clean\_subcategories

In [46]:

```
vectorizer = CountVectorizer(binary=True)
```

```
X_train_clean_subcategories_one = vectorizer.fit_transform(X_train['clean_subcategories'].values)
X_cv_clean_subcategories_one = vectorizer.transform(X_cv['clean_subcategories'].values)
X_test_clean_subcategories_one =vectorizer.transform(X_test['clean_subcategories'].values)
```

```
print("After vectorization")
print(X_train_clean_subcategories_one.shape,y_train.shape)
print(X_cv_clean_subcategories_one.shape,y_cv.shape)
print(X_test_clean_subcategories_one.shape,y_test.shape)
print(vectorizer.get_feature_names())
feature_names_set1.extend(vectorizer.get_feature_names())
feature_names_set2.extend(vectorizer.get_feature_names())
```

```
After vectorization
(22445, 30) (22445,)
(11055, 30) (11055,)
(16500, 30) (16500,)
['appliedsciences', 'care_hunger', 'charactereducation', 'civics_government', 'college_careerprep', 'communityservice', 'earlydevelopment', 'economics', 'environmentalscience', 'esl', 'extracurricular', 'financialliteracy', 'foreignlanguages', 'gym_fitness', 'health_lifescience', 'health_wellness', 'history_geography', 'literacy', 'literature_writing', 'mathematics', 'music', 'nutritioneducation', 'other', 'parentinvolvement', 'performingarts', 'socialsciences', 'specialneeds', 'teamsports', 'visualarts', 'warmth']
```

## Encoding Numerical Features : price

In [47]:

```
from sklearn.preprocessing import Normalizer
normalizer = Normalizer()
```

```
X_train_price_norm = normalizer.transform(X_train['price'].values.reshape(-1,1))
X_cv_price_norm = normalizer.transform(X_cv['price'].values.reshape(-1,1))
X_test_price_norm = normalizer.transform(X_test['price'].values.reshape(-1,1))
```

```
print("After vectorizations")
print(X_train_price_norm.shape, y_train.shape)
print(X_cv_price_norm.shape, y_cv.shape)
print(X_test_price_norm.shape, y_test.shape)
feature_names_set1.extend(['price'])
feature_names_set2.extend(['price'])
```

```
After vectorizations
(22445, 1) (22445,)
(11055, 1) (11055,)
```

```
(16500, 1) (16500,)
```

## Encoding Numerical Features : teacher\_number\_of\_previously\_posted\_projects

In [48]:

```
from sklearn.preprocessing import Normalizer
normalizer = Normalizer()

X_train_teacher_number_of_previously_posted_projects_norm = normalizer.transform(X_train[
'teacher_number_of_previously_posted_projects'].values.reshape(-1,1))
X_cv_teacher_number_of_previously_posted_projects_norm = normalizer.transform(X_cv['teach
er_number_of_previously_posted_projects'].values.reshape(-1,1))
X_test_teacher_number_of_previously_posted_projects_norm = normalizer.transform(X_test['t
eacher_number_of_previously_posted_projects'].values.reshape(-1,1))

print("After vectorizations")
print(X_train_teacher_number_of_previously_posted_projects_norm.shape, y_train.shape)
print(X_cv_teacher_number_of_previously_posted_projects_norm.shape, y_cv.shape)
print(X_test_teacher_number_of_previously_posted_projects_norm.shape, y_test.shape)
feature_names_set1.extend(['teacher_number_of_previously_posted_projects'])
feature_names_set2.extend(['teacher_number_of_previously_posted_projects'])
```

After vectorizations

```
(22445, 1) (22445,)
(11055, 1) (11055,)
(16500, 1) (16500,)
```

In [49]:

```
#printing the lists which contains the names of all the features that are being encoded
print(feature_names_set1)
print(feature_names_set2)
```

```
['000', '10', '100', '100 free', '100 percent', '100 students', '100 students receive', '
100 students receive free', '11', '12', '12th', '13', '14', '15', '16', '17', '18', '1st'
, '1st grade', '1st graders', '20', '2016', '2016 2017', '2017', '21', '21st', '21st cent
ury', '21st century learners', '21st century skills', '22', '23', '24', '25', '25 student
s', '26', '28', '2nd', '2nd grade', '2nd graders', '30', '30 students', '3d', '3rd', '3rd
grade', '3rd graders', '40', '45', '4th', '4th 5th', '4th grade', '4th graders', '50', '5
0 students', '500', '5th', '5th grade', '5th grade students', '5th graders', '60', '60 mi
nutes', '60 minutes day', '60 students', '6th', '6th grade', '6th graders', '70', '75', '
75 students', '7th', '7th 8th', '7th grade', '80', '80 students', '85', '8th', '8th grade
', '8th grade students', '8th graders', '90', '90 students', '95', '98', '99', '9th', 'ab
ilities', 'ability', 'ability learn', 'ability levels', 'able', 'able access', 'able choo
se', 'able control', 'able control home', 'able control home lives', 'able create', 'able
explore', 'able focus', 'able get', 'able give', 'able learn', 'able make', 'able move',
'able practice', 'able provide', 'able provide students', 'able read', 'able see', 'able
sit', 'able take', 'able use', 'able work', 'about', 'absolutely', 'absolutely love', 'ab
stract', 'academic', 'academic achievement', 'academic excellence', 'academic performance
', 'academic skills', 'academic social', 'academic success', 'academically', 'academicall
y socially', 'academics', 'academy', 'accelerated', 'access', 'access books', 'access com
puters', 'access internet', 'access materials', 'access technology', 'access technology h
ome', 'accessible', 'accommodate', 'accomplish', 'according', 'achieve', 'achieve goals',
'achievement', 'achievement gap', 'achieving', 'acquire', 'across', 'act', 'action', 'act
ive', 'active learners', 'active learning', 'actively', 'actively engaged', 'activities',
'activities help', 'activities my', 'activities students', 'activities the', 'activities
they', 'activity', 'actual', 'actually', 'add', 'added', 'adding', 'addition', 'addition
classroom', 'addition subtraction', 'additional', 'additionally', 'address', 'adequate',
'adhd', 'adult', 'adults', 'advance', 'advanced', 'advantage', 'adventure', 'adventures',
'affect', 'affluent', 'afford', 'afraid', 'african', 'african american', 'after', 'aftern
oon', 'age', 'age appropriate', 'ages', 'ago', 'ahead', 'aid', 'aids', 'aim', 'air', 'alg
ebra', 'alive', 'all', 'all students', 'all students receive', 'all students receive free
', 'allow', 'allow student', 'allow students', 'allow students access', 'allow students l
earn', 'allow students move', 'allow students work', 'allow us', 'allowed', 'allowing', '
allowing students', 'allows', 'allows students', 'almost', 'alone', 'along', 'aloud', 'al
ouds', 'alphabet', 'already', 'also', 'also able', 'also allow', 'also allow students', '
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'students coming', 'students complete', 'students constantly', 'students continue', 'students could', 'students create', 'students creative', 'students creative meaningful', 'students creative meaningful learning', 'students curious', 'students currently', 'students daily', 'students deserve', 'students develop', 'students different', 'students disabilities', 'students diverse', 'students diverse group', 'students eager', 'students eager learn', 'students economically', 'students encouraged', 'students energetic', 'students engage', 'students engaged', 'students english', 'students english language', 'students english language learners', 'students enjoy', 'students enter', 'students enter classroom', 'students enthusiastic', 'students especially', 'students even', 'students every', 'students excited', 'students expected', 'students experience', 'students explore', 'students exposed', 'students extremely', 'students face', 'students face many', 'students face many challenges', 'students faced', 'students faced several', 'students face several challenges', 'students families', 'students feel', 'students feel comfortable', 'students find', 'students first', 'students focus', 'students free', 'students free reduced', 'students free reduced lunch', 'students full', 'students fun', 'students future', 'students gain', 'students get', 'students given', 'students go', 'students grade', 'students grades', 'students great', 'students group', 'students grow', 'students hands', 'students hard', 'students hard working', 'students help', 'students high', 'students highly', 'students improve', 'students in', 'students increase', 'students interested', 'students it', 'students keep', 'students kindergarten', 'students know', 'students lack', 'students learn', 'students learn best', 'students learning', 'students like', 'students limited', 'students listen', 'students live', 'students live poverty', 'students lives', 'students living', 'students look', 'students look forward', 'students love', 'students love learn', 'students love learning', 'students love read', 'students love reading', 'students low', 'students low income', 'students make', 'students many', 'students many students', 'students materials', 'students may', 'students meet', 'students motivated', 'students move', 'students moving', 'students much', 'students must', 'students my', 'students my students', 'students nannan', 'students need', 'students needs', 'students never', 'students new', 'students no', 'students not', 'students not access', 'students often', 'students one', 'students opportunities', 'students opportunity', 'students opportunity learn', 'students our', 'students parents', 'students part', 'students participate', 'students place', 'students play', 'students practice', 'students qualify', 'students qualify free', 'students qualify free reduced', 'students range', 'students reach', 'students read', 'students reading', 'students ready', 'students really', 'students receive', 'students receive free', 'students receive free breakfast', 'students receive free lunch', 'students receive free reduced', 'students receiving', 'students receiving free', 'students receiving free reduced', 'students requested', 'students require', 'students research', 'students school', 'students school come', 'students school receive', 'students second', 'students see', 'students share', 'students show', 'students sit', 'students small', 'students speak', 'students special', 'students special needs', 'students spend', 'students start', 'students stay', 'students still', 'students strive', 'students struggle', 'students struggling', 'students students', 'students succeed', 'students success', 'students successful', 'students take', 'students teach', 'students teachers', 'students technology', 'students the', 'students these', 'students they', 'students think', 'students this', 'students thrive', 'students time', 'students tools', 'students truly', 'students understand', 'students unique', 'students use', 'students use materials', 'students using', 'students utilize', 'students variety', 'students various', 'students walk', 'students walk classroom', 'students walk classroom every', 'students want', 'students want learn', 'students we', 'students well', 'students wide', 'students with', 'students wonderful', 'students work', 'students work hard', 'students work together', 'students working', 'students world', 'students would', 'students would able', 'students would benefit', 'students would like', 'students would love', 'students write', 'students year', 'students years', 'studies', 'study', 'studying', 'style', 'styles', 'subject', 'subject areas', 'subjects', 'subscription', 'subtraction', 'suburban', 'succeed', 'success', 'success my', 'success nannan', 'success students', 'successes', 'successful', 'successful classroom', 'successful school', 'successfully', 'suggested', 'summer', 'super', 'supplement', 'supplies', 'supplies help', 'supplies need', 'supplies needed', 'supplies students', 'supply', 'support', 'support learning', 'support students', 'supported', 'supporting', 'supportive', 'supports', 'sure', 'sure students', 'surface', 'surrounded', 'surrounding', 'sweet', 'system', 'systems', 'table', 'tables', 'tablet', 'tablets', 'tackle', 'tactile', 'take', 'take care', 'take granted', 'take home', 'take ownership', 'take ownership learning', 'take place', 'take pride', 'take

turns', 'taken', 'takes', 'taking', 'talented', 'talents', 'talk', 'talking', 'tape', 'target', 'task', 'tasks', 'taught', 'teach', 'teach low', 'teach school', 'teach students', 'teach title', 'teach title school', 'teacher', 'teacher low', 'teacher low income', 'teacher low income high', 'teacher students', 'teacher want', 'teachers', 'teachers students', 'teaches', 'teaching', 'teaching students', 'team', 'teams', 'teamwork', 'tech', 'techniques', 'technological', 'technologically', 'technology', 'technology classroom', 'technology daily', 'technology engineering', 'technology engineering math', 'technology help', 'technology home', 'technology my', 'technology nannan', 'technology not', 'technology skills', 'technology students', 'technology the', 'technology they', 'tell', 'telling', 'ten', 'tend', 'term', 'terms', 'test', 'test scores', 'testing', 'tests', 'texas', 'text', 'textbook', 'textbooks', 'texts', 'thank', 'thank advance', 'thank considering', 'thank much', 'thank nannan', 'thanks', 'that', 'the', 'the addition', 'the best', 'the books', 'the children', 'the classroom', 'the donations', 'the donations project', 'the first', 'the goal', 'the ipad', 'the ipads', 'the items', 'the kids', 'the majority', 'the majority students', 'the materials', 'the new', 'the school', 'the student', 'the students', 'the students able', 'the students class', 'the students classroom', 'the students come', 'the students love', 'the students school', 'the students use', 'the students work', 'the supplies', 'the use', 'the wobble', 'their', 'theme', 'themes', 'then', 'therapy', 'there', 'there many', 'there no', 'therefore', 'these', 'these activities', 'these books', 'these chairs', 'these children', 'these donations', 'these items', 'these kids', 'these materials', 'these materials allow', 'these materials help', 'these resources', 'these stools', 'these students', 'these students come', 'these supplies', 'these things', 'they', 'they able', 'they also', 'they also able', 'they always', 'they attend', 'they come', 'they come school', 'they curious', 'they deserve', 'they eager', 'they eager learn', 'they enjoy', 'they excited', 'they get', 'they great', 'they hard', 'they know', 'they learn', 'they learning', 'they like', 'they like move', 'they live', 'they love', 'they love learn', 'they need', 'they not', 'they often', 'they take', 'they use', 'they want', 'they work', 'they work hard', 'they would', 'thing', 'thing common', 'things', 'things may', 'things simple', 'things simple provide', 'things simple provide students', 'things they', 'think', 'think critically', 'thinkers', 'thinking', 'thinking skills', 'third', 'third grade', 'third grade students', 'third graders', 'thirst', 'thirst knowledge', 'this', 'this allow', 'this allows', 'this also', 'this donation', 'this first', 'this first year', 'this help', 'this makes', 'this means', 'this not', 'this project', 'this project allow', 'this project allow students', 'this project help', 'this project make', 'this project would', 'this school', 'this would', 'this year', 'those', 'though', 'thought', 'thoughtful', 'thoughts', 'three', 'thrilled', 'thrive', 'through', 'throughout', 'throughout day', 'throughout school', 'throughout school day', 'throughout school year', 'throughout year', 'thus', 'tight', 'tiles', 'time', 'time day', 'time kids', 'time learning', 'time my', 'time my students', 'time nannan', 'time school', 'time sitting', 'time students', 'time the', 'time they', 'time this', 'times', 'times students', 'tired', 'title', 'title one', 'title one school', 'title school', 'title school 100', 'title school many', 'title school students', 'titles', 'to', 'today', 'today world', 'together', 'told', 'tomorrow', 'took', 'tool', 'tools', 'tools help', 'tools need', 'top', 'topic', 'topics', 'total', 'touch', 'tough', 'toward', 'towards', 'town', 'toys', 'track', 'traditional', 'traditional classroom', 'training', 'transfer', 'transform', 'transient', 'transition', 'transitional', 'trauma', 'travel', 'treat', 'tremendous', 'tremendously', 'tried', 'trip', 'trips', 'trouble', 'true', 'truly', 'truly believe', 'try', 'try best', 'try make', 'try new', 'try new things', 'trying', 'turn', 'turning', 'turns', 'tv', 'twenty', 'two', 'two years', 'type', 'types', 'typical', 'typical day', 'typical day classroom', 'typically', 'typing', 'ultimate', 'ultimately', 'unable', 'uncomfortable', 'understand', 'understanding', 'unfortunately', 'unfortunately not', 'unique', 'unit', 'united', 'united states', 'units', 'universities', 'upcoming', 'updated', 'upon', 'upper', 'urban', 'urban area', 'urban school', 'us', 'use', 'use books', 'use chromebooks', 'use classroom', 'use computers', 'use daily', 'use hands', 'use ipad', 'use ipads', 'use materials', 'use new', 'use tablets', 'use technology', 'used', 'used classroom', 'used daily', 'used help', 'used students', 'useful', 'uses', 'using', 'using ipads', 'using technology', 'usually', 'utilize', 'utilized', 'utilizing', 'valuable', 'value', 'valued', 'values', 'varied', 'variety', 'variety backgrounds', 'variety books', 'variety different', 'variety learning', 'variety seating', 'variety ways', 'various', 'various backgrounds', 'vary', 'varying', 'vast', 'vegetables', 'verbal', 'via', 'vibrant', 'video', 'videos', 'view', 'violence', 'virtual', 'vision', 'visit', 'visual', 'visual learners', 'visualize', 'visually', 'visuals', 'vital', 'vocabulary', 'voice', 'voices', 'volleyball', 'wait', 'wait see', 'waiting', 'walk', 'walk classroom', 'walk classroom every', 'walk classroom every day', 'walk door', 'walk door classroom', 'walk door classroom focus', 'walking', 'walks', 'walks life', 'wall', 'walls', 'want', 'want able', 'want best', 'want classroom', 'want create', 'want give', 'want give students', 'want help', 'want know', 'want learn', 'want make', 'want make sure', 'want provide', 'want provide students', 'want read', 'want school', 'want see', 'want students', 'want students able', 'want use', 'wanted', 'wanting', 'wants', 'warm', 'washington', 'waste', 'watch', 'watching', 'water', 'water bottles', 'way', 'way get', 'way help', 'way hopeful', 'way hopeful inspire', 'way learn', 'way my', 'way nannan', 'way students', 'ways', 'ways help', 'ways learn', 'ways students', 'we', 'we able', 'we also', 'we believe', 'we currently', 'we diverse', 'we high', 'we know', 'we learn', 'we live', 'we located', 'we

we love', 'we many', 'we need', 'we not', 'we school', 'we small', 'we spend', 'we strive', 'we students', 'we title', 'we title school', 'we use', 'we want', 'we work', 'we work hard', 'we working', 'we would', 'wear', 'weather', 'web', 'website', 'websites', 'week', 'weekend', 'weekly', 'weeks', 'weight', 'welcome', 'welcoming', 'well', 'well nannan', 'well rounded', 'well students', 'wellness', 'went', 'west', 'what', 'what better', 'whatever', 'when', 'when students', 'whenever', 'whether', 'while', 'while students', 'white', 'white board', 'white boards', 'whiteboard', 'whiteboards', 'who', 'whole', 'whole class', 'whole group', 'whole group instruction', 'whole new', 'whose', 'why', 'wide', 'wide range', 'wide variety', 'wiggle', 'wiggles', 'wiggling', 'wiggly', 'willing', 'willingness', 'win', 'winter', 'wireless', 'wish', 'with', 'with help', 'with materials', 'with new', 'within', 'within classroom', 'within school', 'without', 'wobble', 'wobble chairs', 'wobble cushions', 'wobble stools', 'wonder', 'wonderful', 'wonderful group', 'wonderful students', 'word', 'words', 'work', 'work best', 'work collaboratively', 'work groups', 'work hard', 'work independently', 'work my', 'work nannan', 'work school', 'work small', 'work small groups', 'work space', 'work students', 'work the', 'work they', 'work time', 'work title', 'work title school', 'work together', 'work well', 'worked', 'workers', 'working', 'working hard', 'working small', 'working students', 'working together', 'works', 'works best', 'worksheets', 'workshop', 'world', 'world around', 'world around they', 'world live', 'world my', 'world my students', 'world nannan', 'world problems', 'world students', 'world technology', 'world the', 'world they', 'worlds', 'worry', 'worth', 'would', 'would able', 'would allow', 'would allow students', 'would also', 'would benefit', 'would give', 'would great', 'would greatly', 'would help', 'would help students', 'would like', 'would like provide', 'would like students', 'would love', 'would love able', 'would make', 'would not', 'would provide', 'would use', 'would used', 'write', 'writer', 'writers', 'writing', 'writing math', 'writing skills', 'written', 'year', 'year long', 'year many', 'year my', 'year my students', 'year nannan', 'year not', 'year old', 'year old students', 'year olds', 'year school', 'year students', 'year teacher', 'year teaching', 'year the', 'year they', 'year this', 'year want', 'year we', 'year would', 'year year', 'yearbook', 'years', 'years ago', 'years come', 'years old', 'yes', 'yet', 'yoga', 'yoga balls', 'yoga mats', 'york', 'you', 'young', 'young age', 'young children', 'young learners', 'young minds', 'young people', 'young students', 'younger', 'your', 'your donation', 'your donation help', 'your donations', 'your generous', 'your generous donation', 'youth', 'dr', 'mr', 'mrs', 'ms', 'teacher', 'grades\_3\_5', 'grades\_6\_8', 'grades\_9\_12', 'grades\_prek\_2', 'ak', 'al', 'ar', 'az', 'ca', 'co', 'ct', 'dc', 'de', 'fl', 'ga', 'hi', 'ia', 'id', 'il', 'in', 'ks', 'ky', 'la', 'ma', 'md', 'me', 'mi', 'mn', 'mo', 'ms', 'mt', 'nc', 'nd', 'ne', 'nh', 'nj', 'nm', 'nv', 'ny', 'oh', 'ok', 'or', 'pa', 'ri', 'sc', 'sd', 'tn', 'tx', 'ut', 'va', 'vt', 'wa', 'wi', 'wv', 'wy', 'appliedlearning', 'care\_hunger', 'health\_sports', 'history\_civics', 'literacy\_language', 'math\_science', 'music\_arts', 'specialneeds', 'warmth', 'appliedsciences', 'care\_hunger', 'charactereducation', 'civics\_government', 'college\_careerprep', 'communityservice', 'earlydevelopment', 'economics', 'environmentalscience', 'esl', 'extracurricular', 'financialliteracy', 'foreignlanguages', 'gym\_fitness', 'health\_lifescience', 'health\_wellness', 'history\_geography', 'literacy', 'literature\_writing', 'mathematics', 'music', 'nutritioneducation', 'other', 'parentinvolvement', 'performing\_arts', 'socialsciences', 'specialneeds', 'teamsports', 'visualarts', 'warmth', 'price', 'teacher\_number\_of\_previously\_posted\_projects']

## Concatinating all the features

### Set 1: categorical, numerical features + preprocessed\_essay (BOW)

In [50]:

```
# merge two sparse matrices: https://stackoverflow.com/a/19710648/4084039
from scipy.sparse import hstack
X_tr_set1 = hstack((X_train_essay_bow, X_train_teacher_prefix_one, X_train_project_grade_catg_one, X_train_school_state_one, X_train_clean_categories_one, X_train_clean_subcategories_one, X_train_price_norm, X_train_teacher_number_of_previously_posted_projects_norm)).tocsr()
X_cr_set1 = hstack((X_cv_essay_bow, X_cv_teacher_prefix_one, X_cv_project_grade_catg_one, X_cv_school_state_one, X_cv_clean_categories_one, X_cv_clean_subcategories_one, X_cv_price_norm, X_cv_teacher_number_of_previously_posted_projects_norm)).tocsr()
X_te_set1 = hstack((X_test_essay_bow, X_test_teacher_prefix_one, X_test_project_grade_catg_one, X_test_school_state_one, X_test_clean_categories_one, X_test_clean_subcategories_one, X_test_price_norm, X_test_teacher_number_of_previously_posted_projects_norm)).tocsr()

print("Final Data matrix")
print(X_tr_set1.shape, y_train.shape)
print(X_cr_set1.shape, y_cv.shape)
```

```
print(X_te_set1.shape, y_test.shape)
```

```
Final Data matrix  
(22445, 5101) (22445,)  
(11055, 5101) (11055,)  
(16500, 5101) (16500,)
```

## Set 2: categorical, numerical features + preprocessed\_eassay (TFIDF)

In [51]:

```
X_tr_set2 = hstack((X_train_essay_tfidf, X_train_teacher_prefix_one, X_train_project_grade_catg_one, X_train_school_state_one, X_train_clean_categories_one, X_train_clean_subcategories_one, X_train_price_norm, X_train_teacher_number_of_previously_posted_projects_norm)).tocsr()  
X_cr_set2 = hstack((X_cv_essay_tfidf, X_cv_teacher_prefix_one, X_cv_project_grade_catg_one, X_cv_school_state_one, X_cv_clean_categories_one, X_cv_clean_subcategories_one, X_cv_price_norm, X_cv_teacher_number_of_previously_posted_projects_norm)).tocsr()  
X_te_set2 = hstack((X_test_essay_tfidf, X_test_teacher_prefix_one, X_test_project_grade_catg_one, X_test_school_state_one, X_test_clean_categories_one, X_test_clean_subcategories_one, X_test_price_norm, X_test_teacher_number_of_previously_posted_projects_norm)).tocsr()  
  
print("Final Data matrix")  
print(X_tr_set2.shape, y_train.shape)  
print(X_cr_set2.shape, y_cv.shape)  
print(X_te_set2.shape, y_test.shape)
```

```
Final Data matrix  
(22445, 5101) (22445,)  
(11055, 5101) (11055,)  
(16500, 5101) (16500,)
```

## 1.5 Applying NB on different kind of featurization as mentioned in the instructions

Apply NB on different kind of featurization as mentioned in the instructions

For Every model that you work on make sure you do the step 2 and step 3 of instructions

## Applying NB of feature set1 i.e categorical, numerical features + preprocessed\_eassay (BOW)

### Hyper parameter Tuning

### Using Simple for loop Method

In [52]:

```
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 until 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 [53]:

```
from sklearn.naive_bayes import MultinomialNB
from sklearn.metrics import roc_auc_score
from math import log
"""
y_true : array, shape = [n_samples] or [n_samples, n_classes]
True binary labels or binary label indicators.

y_score : array, shape = [n_samples] or [n_samples, n_classes]
Target scores, can either be probability estimates of the positive class, confidence values, or non-thresholded measure of decisions (as returned by "decision_function" on some classifiers).
For binary y_true, y_score is supposed to be the score of the class with greater label.

"""

train_auc = []
cv_auc = []
a = [0.00001, 0.00005, 0.0001, 0.0005, 0.001, 0.005, 0.01, 0.05, 0.1, 0.5, 1, 5, 10, 50, 100]
for i in tqdm(a):
    clf = MultinomialNB(alpha=i, class_prior=[0.5, 0.5])
    clf.fit(X_tr_set1, y_train)

    y_train_pred = batch_predict(clf, X_tr_set1)
    y_cv_pred = batch_predict(clf, X_cv_set1)

    # roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of
    # the positive class
    # not the predicted outputs
    train_auc.append(roc_auc_score(y_train, y_train_pred))
    cv_auc.append(roc_auc_score(y_cv, y_cv_pred))

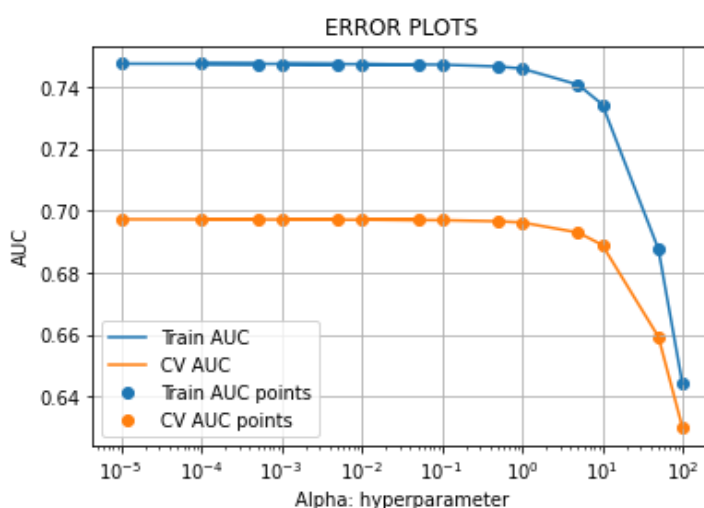
plt.plot(a, train_auc, label='Train AUC')
plt.plot(a, cv_auc, label='CV AUC')

plt.scatter(a, train_auc, label='Train AUC points')
plt.scatter(a, cv_auc, label='CV AUC points')

#https://www.bmc.com/blogs/matplotlib-logarithmic-scale/
plt.xscale('log')

plt.legend()
plt.xlabel("Alpha: hyperparameter")
plt.ylabel("AUC")
plt.title("ERROR PLOTS")
plt.grid()
plt.show()
```

100%|██████████| 14/14 [00:01<00:00, 7.20it/s]



In [64]:

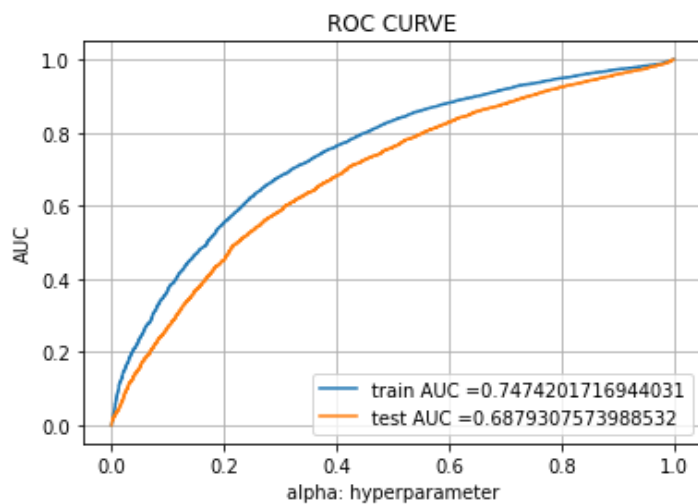
```
# https://scikit-learn.org/stable/modules/generated/sklearn.metrics.roc_curve.html#sklearn.metrics.roc_curve
best_alpha= 0.00001

clf = MultinomialNB(alpha=best_alpha,class_prior=[0.5,0.5])
clf.fit(X_tr_set1, y_train)
# roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of the
# positive class
# not the predicted outputs

y_train_pred = batch_predict(clf, X_tr_set1)
y_test_pred = batch_predict(clf, X_te_set1)

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("alpha: hyperparameter")
plt.ylabel("AUC")
plt.title("ROC CURVE")
plt.grid()
plt.show()
```



In [55]:

```
# we are writing our own function for predict, with defined threshold
# 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.round
(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
```

In [56]:

```
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)))
```

the maximum value of  $tpr \cdot (1 - fpr)$  0.4771466411867352 for threshold 0.608

Train confusion matrix

```
[[ 2540  1055]
 [ 6120 12730]]
```

Test confusion matrix

```
[[1640 1002]
 [4664 9194]]
```

## The top 20 features from feature Set 1 using values of `feature_log_prob_` parameter of MultinomialNB </he>

In [57]:

```
set1 = np.argsort(clf.feature_log_prob_[1])
set0 = np.argsort(clf.feature_log_prob_[0])
#print(set1)
#print(set0)
set_positive = set1.tolist()
set_negative = set0.tolist()
#reversing the list and taking the top 20 values
reversed_set_positive = set_positive[::-1][:20]
reversed_set_negative = set_negative[::-1][:20]
#print(reversed_set_positive)
#print(reversed_set_negative)

#using list comprehension
top20_positive_features = [feature_names_set1[i] for i in reversed_set_positive]
top20_negative_features = [feature_names_set1[i] for i in reversed_set_negative]

print("The top 20 positive feature names in Set1 :",top20_positive_features)
print("The top 20 negative feature names in Set1 :",top20_negative_features)
```

The top 20 positive feature names in Set1 : ['students', 'school', 'my', 'classroom', 'learning', 'the', 'not', 'they', 'learn', 'my students', 'help', 'price', 'many', 'nannan', 'we', 'reading', 'work', 'need', 'use', 'day']

The top 20 negative feature names in Set1 : ['students', 'school', 'learning', 'my', 'classroom', 'not', 'learn', 'they', 'help', 'the', 'my students', 'price', 'many', 'nannan', 'need', 'work', 'we', 'come', 'year', 'able']

## Applying NB of feature set2 i.e categorical, numerical features + preprocessed\_eassay (TFIDF)

In [58]:

```
from sklearn.naive_bayes import MultinomialNB
from sklearn.metrics import roc_auc_score
"""
y_true : array, shape = [n_samples] or [n_samples, n_classes]
True binary labels or binary label indicators.

y_score : array, shape = [n_samples] or [n_samples, n_classes]
Target scores, can either be probability estimates of the positive class, confidence values, or non-thresholded measure of decisions (as returned by "decision_function" on some classifiers).
For binary y_true, y_score is supposed to be the score of the class with greater label.
"""

train_auc = []
cv_auc = []
a = [0.00001, 0.0005, 0.0001, 0.005, 0.001, 0.05, 0.01, 0.1, 0.5, 1, 5, 10, 50, 100]
for i in tqdm(a):
    clf = MultinomialNB(alpha=i, class_prior=[0.5, 0.5])
    clf.fit(X_tr_set2, y_train)

    y_train_pred = batch_predict(clf, X_tr_set2)
    y_cv_pred = batch_predict(clf, X_cr_set2)
```



```

# roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of
the positive class
# not the predicted outputs
train_auc.append(roc_auc_score(y_train,y_train_pred))
cv_auc.append(roc_auc_score(y_cv, y_cv_pred))

plt.plot(a, train_auc, label='Train AUC')
plt.plot(a, cv_auc, label='CV AUC')

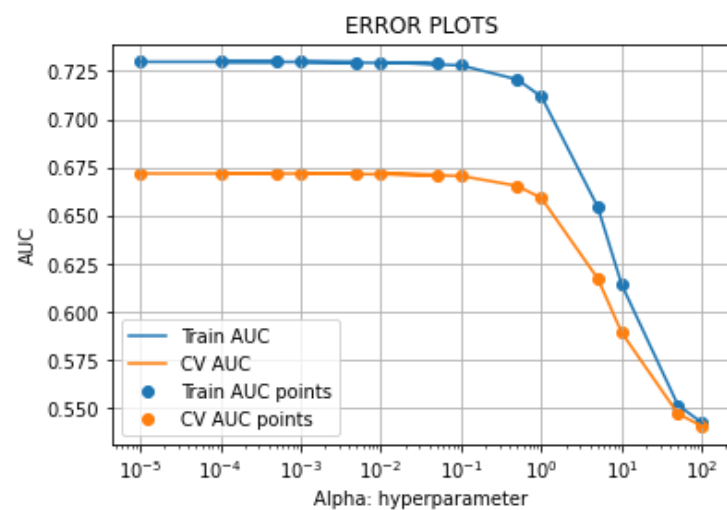
plt.scatter(a, train_auc, label='Train AUC points')
plt.scatter(a, cv_auc, label='CV AUC points')

#https://www.bmc.com/blogs/matplotlib-logarithmic-scale/
plt.xscale('log')

plt.legend()
plt.xlabel("Alpha: hyperparameter")
plt.ylabel("AUC")
plt.title("ERROR PLOTS")
plt.grid()
plt.show()

```

100%|██████████| 14/14 [00:01<00:00, 7.22it/s]



In [59]:

```

# https://scikit-learn.org/stable/modules/generated/sklearn.metrics.roc_curve.html#sklearn.metrics.roc_curve
best_alpha= 0.00001

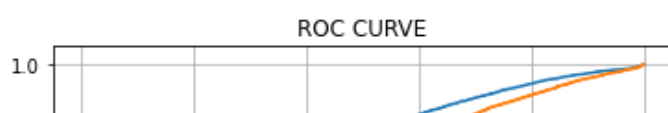
clf = MultinomialNB(alpha=best_alpha,class_prior=[0.5,0.5])
clf.fit(X_tr_set2, y_train)
# roc_auc_score(y_true, y_score) the 2nd parameter should be probability estimates of the
positive class
# not the predicted outputs

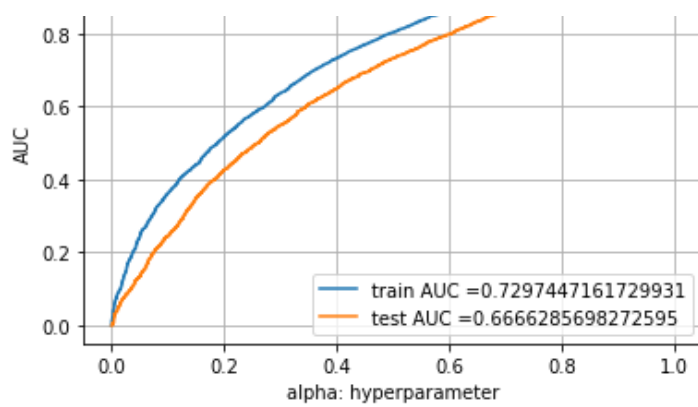
y_train_pred = batch_predict(clf, X_tr_set2)
y_test_pred = batch_predict(clf, X_te_set2)

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("alpha: hyperparameter")
plt.ylabel("AUC")
plt.title("ROC CURVE")
plt.grid()
plt.show()

```





In [60]:

```
# we are writing our own function for predict, with defined threshold
# 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.round
(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
```

In [61]:

```
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)))
```

```
the maximum value of tpr*(1-fpr) 0.4487023311923797 for threshold 0.495
Train confusion matrix
[[ 2350  1245]
 [ 5911 12939]]
Test confusion matrix
[[1497 1145]
 [4441 9417]]
```

### 3. Summary

Vectorizer	Model	Hyper Parameter	Train AUC	Test AUC
BOW	MultinomialNB	Alpha = 0.00001	0.7474	0.6879
TFIDF	MultinomialNB	Alpha = 0.00001	0.7297	0.6666