

Personalized cancer diagnosis

1. Business Problem

1.1. Description

Source: <https://www.kaggle.com/c/msk-redefining-cancer-treatment/>

Data: Memorial Sloan Kettering Cancer Center (MSKCC)

Download training_variants.zip and training_text.zip from Kaggle.

Context:

Source: <https://www.kaggle.com/c/msk-redefining-cancer-treatment/discussion/35336#198462>

Problem statement :

Classify the given genetic variations/mutations based on evidence from text-based clinical literature.

1.2. Source/Useful Links

Some articles and reference blogs about the problem statement

1. <https://www.forbes.com/sites/matthewherper/2017/06/03/a-new-cancer-drug-helped-almost-everyone-who-took-it-almost-heres-what-it-teaches-us/#2a44ee2f6b25>
2. <https://www.youtube.com/watch?v=UwbuW7oK8rk>
3. <https://www.youtube.com/watch?v=qxXRKVompl8>

1.3. Real-world/Business objectives and constraints.

- No low-latency requirement.
- Interpretability is important.
- Errors can be very costly.
- Probability of a data-point belonging to each class is needed.

2. Machine Learning Problem Formulation

2.1. Data

2.1.1. Data Overview

- Source: <https://www.kaggle.com/c/msk-redefining-cancer-treatment/data>
- We have two data files: one contains the information about the genetic mutations and the other contains the clinical evidence (text) that human experts/pathologists use to classify the genetic mutations.
- Both these data files have a common column called ID
- Data file's information:
 - training_variants (ID , Gene, Variations, Class)
 - training_text (ID, Text)

2.1.2. Example Data Point

training_variants

ID,Gene,Variation,Class
0,FAM58A,Truncating Mutations,1
1,CBL,W802*,2
2,CBL,Q249E,2
...

training_text

ID,Text

0||Cyclin-dependent kinases (CDKs) regulate a variety of fundamental cellular processes. CDK10 stands out as one of the last orphan CDKs for which no activating cyclin has been identified and no kinase activity revealed. Previous work has shown that CDK10 silencing increases ETS2 (v-ets erythroblastosis virus E26 oncogene homolog 2)-driven activation of the MAPK pathway, which confers tamoxifen resistance to breast cancer cells. The precise mechanisms by which CDK10 modulates ETS2 activity, and more generally the functions of CDK10, remain elusive. Here we demonstrate that CDK10 is a cyclin-dependent kinase by identifying cyclin M as an activating cyclin. Cyclin M, an orphan cyclin, is the product of FAM58A, whose mutations cause STAR syndrome, a human developmental anomaly whose features include toe syndactyly, telecanthus, and anogenital and renal malformations. We show that STAR syndrome-associated cyclin M mutants are unable to interact with CDK10. Cyclin M silencing phenocopies CDK10 silencing in increasing c-Raf and in conferring tamoxifen resistance to breast cancer cells. CDK10/cyclin M phosphorylates ETS2 in vitro, and in cells it positively controls ETS2 degradation by the proteasome. ETS2 protein levels are increased in cells derived from a STAR patient, and this increase is attributable to decreased cyclin M levels. Altogether, our results reveal an additional regulatory mechanism for ETS2, which plays key roles in cancer and development. They also shed light on the molecular mechanisms underlying STAR syndrome. Cyclin-dependent kinases (CDKs) play a pivotal role in the control of a number of fundamental cellular processes (1). The human genome contains 21 genes encoding proteins that can be considered as members of the CDK family owing to their sequence similarity with bona fide CDKs, those known to be activated by cyclins (2). Although discovered almost 20 y ago (3, 4), CDK10 remains one of the two CDKs without an identified cyclin partner. This knowledge gap has largely impeded the exploration of its biological functions. CDK10 can act as a positive cell cycle regulator in some cells (5, 6) or as a tumor suppressor in others (7, 8). CDK10 interacts with the ETS2 (v-ets erythroblastosis virus E26 oncogene homolog 2) transcription factor and inhibits its transcriptional activity through an unknown mechanism (9). CDK10 knockdown derepresses ETS2, which increases the expression of the c-Raf protein kinase, activates the MAPK pathway, and induces resistance of MCF7 cells to tamoxifen (6). ...

2.2. Mapping the real-world problem to an ML problem

2.2.1. Type of Machine Learning Problem

There are nine different classes a genetic mutation can be classified into => Multi class classification problem

2.2.2. Performance Metric

Source: <https://www.kaggle.com/c/msk-redefining-cancer-treatment#evaluation>

Metric(s):

- Multi class log-loss
- Confusion matrix

2.2.3. Machine Learing Objectives and Constraints

Objective: Predict the probability of each data-point belonging to each of the nine classes.

Constraints:

- Interpretability
- Class probabilities are needed.
- Penalize the errors in class probabilites => Metric is Log-loss.
- No Latency constraints.

2.3. Train, CV and Test Datasets

Split the dataset randomly into three parts train, cross validation and test with 64%,16%, 20% of data respectively

3. Exploratory Data Analysis

In [0]:

```
import pandas as pd
import matplotlib.pyplot as plt
import re
import time
import warnings
import numpy as np
from nltk.corpus import stopwords
from sklearn.decomposition import TruncatedSVD
from sklearn.preprocessing import normalize
from sklearn.feature_extraction.text import CountVectorizer
from sklearn.manifold import TSNE
import seaborn as sns
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import confusion_matrix
from sklearn.metrics.classification import accuracy_score, log_loss
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.linear_model import SGDClassifier
from imblearn.over_sampling import SMOTE
from collections import Counter
from scipy.sparse import hstack
from sklearn.multiclass import OneVsRestClassifier
from sklearn.svm import SVC
from sklearn.model_selection import StratifiedKFold
from collections import Counter, defaultdict
from sklearn.calibration import CalibratedClassifierCV
from sklearn.naive_bayes import MultinomialNB
from sklearn.naive_bayes import GaussianNB
from sklearn.model_selection import train_test_split
from sklearn.model_selection import GridSearchCV
import math
from sklearn.metrics import normalized_mutual_info_score
from sklearn.ensemble import RandomForestClassifier
warnings.filterwarnings("ignore")

from mlxtend.classifier import StackingClassifier

from sklearn import model_selection
from sklearn.linear_model import LogisticRegression
```

In [0]:

```
# from google.colab import drive
# drive.mount('/content/drive')
```

In [0]:

```
# cd drive/My Drive/DONOR_CHOOSE_KNN/cancer
```

3.1. Reading Data

3.1.1. Reading Gene and Variation Data

In [0]:

```
## final_data = pd.read_csv('final_features.csv')
# import os
# for dirname, _, filenames in os.walk('/kaggle/input'):
#     for filename in filenames:
```

```
# for dirname in dirnames:  
#     print(os.path.join(dirname, filename))
```

In [49]:

```
# './input/training/Quora/final_features.csv'  
data = pd.read_csv('training/training_variants')  
print('Number of data points : ', data.shape[0])  
print('Number of features : ', data.shape[1])  
print('Features : ', data.columns.values)  
data.head()
```

Number of data points : 3321
Number of features : 4
Features : ['ID' 'Gene' 'Variation' 'Class']

Out[49]:

ID	Gene	Variation	Class
0	0	FAM58A Truncating Mutations	1
1	1	CBL W802*	2
2	2	CBL Q249E	2
3	3	CBL N454D	3
4	4	CBL L399V	4

training/training_variants is a comma separated file containing the description of the genetic mutations used for training.
Fields are

- **ID** : the id of the row used to link the mutation to the clinical evidence
- **Gene** : the gene where this genetic mutation is located
- **Variation** : the aminoacid change for this mutations
- **Class** : 1-9 the class this genetic mutation has been classified on

3.1.2. Reading Text Data

In [50]:

```
# note the separator in this file  
data_text =pd.read_csv("training/training_text",sep="\\" ,engine="python",names=["ID","TEXT"],skiprows=1)  
print('Number of data points : ', data_text.shape[0])  
print('Number of features : ', data_text.shape[1])  
print('Features : ', data_text.columns.values)  
data_text.head()
```

Number of data points : 3321
Number of features : 2
Features : ['ID' 'TEXT']

Out[50]:

ID	TEXT
0	0 Cyclin-dependent kinases (CDKs) regulate a var...
1	1 Abstract Background Non-small cell lung canc...
2	2 Abstract Background Non-small cell lung canc...
3	3 Recent evidence has demonstrated that acquired...
4	4 Oncogenic mutations in the monomeric Casitas B...

3.1.3. Preprocessing of text

3.1.3.1 Preprocessing of text

In [51]:

```
# loading stop words from nltk library
import nltk
nltk.download('stopwords')

stop_words = set(stopwords.words('english'))

def nlp_preprocessing(total_text, index, column):
    if type(total_text) is not int:
        string = ""
        # replace every special char with space
        total_text = re.sub('[^a-zA-Z0-9\\n]', ' ', total_text)
        # replace multiple spaces with single space
        total_text = re.sub('\\s+', ' ', total_text)
        # converting all the chars into lower-case.
        total_text = total_text.lower()

    for word in total_text.split():
        # if the word is a not a stop word then retain that word from the data
        if not word in stop_words:
            string += word + " "

    data_text[column][index] = string
```

```
[nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data] Package stopwords is already up-to-date!
```

In [52]:

```
#text processing stage.
start_time = time.clock()
for index, row in data_text.iterrows():
    if type(row['TEXT']) is str:
        nlp_preprocessing(row['TEXT'], index, 'TEXT')
    else:
        print("there is no text description for id:",index)
print('Time took for preprocessing the text :',time.clock() - start_time, "seconds")
```

```
there is no text description for id: 1109
there is no text description for id: 1277
there is no text description for id: 1407
there is no text description for id: 1639
there is no text description for id: 2755
Time took for preprocessing the text : 195.0033709999998 seconds
```

In [53]:

```
#merging both gene_variations and text data based on ID
result = pd.merge(data, data_text, on='ID', how='left')
result.head()
```

Out[53]:

ID	Gene	Variation	Class	TEXT
0	0	FAM58A	Truncating Mutations	1 cyclin dependent kinases cdks regulate variety...
1	1	CBL	W802*	2 abstract background non small cell lung cancer...
2	2	CBL	Q249E	2 abstract background non small cell lung cancer...
3	3	CBL	N454D	3 recent evidence demonstrated acquired uniparen...
4	4	CBL	L399V	4 oncogenic mutations monomeric casitas b lineag...

In [54]:

```
result[result.isnull().any(axis=1)]
```

Out[54]:

ID	Gene	Variation	Class	TEXT
1109	1109	FANCA	S1088F	1 NaN
1277	1277	ARID5B	Truncating Mutations	1 NaN
1407	1407	FGFR3	K508M	6 NaN
1639	1639	FLT1	Amplification	6 NaN
2755	2755	BRAF	G596C	7 NaN

In [0]:

```
result.loc[result['TEXT'].isnull(), 'TEXT'] = result['Gene'] + '+' + result['Variation']
```

In [56]:

```
result[result['ID']==1109]
```

Out[56]:

ID	Gene	Variation	Class	TEXT
1109	1109	FANCA	S1088F	1 FANCA S1088F

3.1.4. Test, Train and Cross Validation Split

3.1.4.1. Splitting data into train, test and cross validation (64:20:16)

In [0]:

```
y_true = result['Class'].values
result.Gene = result.Gene.str.replace('\s+', '_')
result.Variation = result.Variation.str.replace('\s+', '_')

# split the data into test and train by maintaining same distribution of output variable 'y_true' [stratify=y_true]
X_train, test_df, y_train, y_test = train_test_split(result, y_true, stratify=y_true, test_size=0.2)
# split the train data into train and cross validation by maintaining same distribution of output variable 'y_train' [stratify=y_train]
train_df, cv_df, y_train, y_cv = train_test_split(X_train, y_train, stratify=y_train, test_size=0.2)
```

We split the data into train, test and cross validation data sets, preserving the ratio of class distribution in the original data set

In [58]:

```
print('Number of data points in train data:', train_df.shape[0])
print('Number of data points in test data:', test_df.shape[0])
print('Number of data points in cross validation data:', cv_df.shape[0])
```

Number of data points in train data: 2124

Number of data points in test data: 665

Number of data points in cross validation data: 532

bold text

3.1.4.2. Distribution of y_i's in Train, Test and Cross Validation datasets

In [59]:

```
# it returns a dict, keys as class labels and values as the number of data points in that class
train_class_distribution = train_df['Class'].value_counts()
test_class_distribution = test_df['Class'].value_counts()
cv_class_distribution = cv_df['Class'].value_counts()
```

```

my_colors = 'rgbkymc'
train_class_distribution.plot(kind='bar')
plt.xlabel('Class')
plt.ylabel('Data points per Class')
plt.title('Distribution of yi in train data')
plt.grid()
plt.show()

# ref: argsort https://docs.scipy.org/doc/numpy/reference/generated/numpy.argsort.html
# -(train_class_distribution.values): the minus sign will give us in decreasing order
sorted_yi = np.argsort(-train_class_distribution.values)
for i in sorted_yi:
    print('Number of data points in class', i+1, ':', train_class_distribution.values[i], '(', np.round((train_class_distribution.values[i]/train_df.shape[0]*100), 3), '%)')

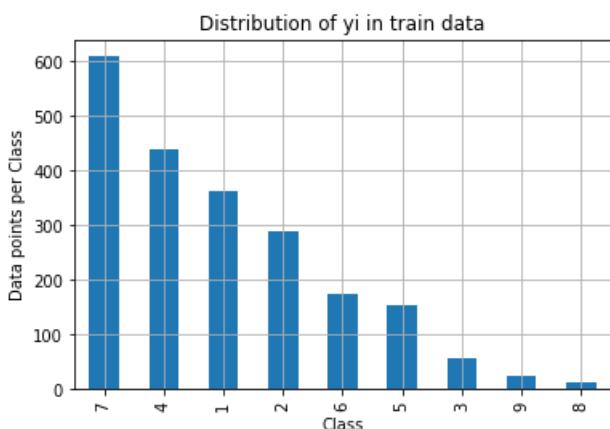
print('*'*80)
my_colors = 'rgbkymc'
test_class_distribution.plot(kind='bar')
plt.xlabel('Class')
plt.ylabel('Data points per Class')
plt.title('Distribution of yi in test data')
plt.grid()
plt.show()

# ref: argsort https://docs.scipy.org/doc/numpy/reference/generated/numpy.argsort.html
# -(test_class_distribution.values): the minus sign will give us in decreasing order
sorted_yi = np.argsort(-test_class_distribution.values)
for i in sorted_yi:
    print('Number of data points in class', i+1, ':', test_class_distribution.values[i], '(', np.round((test_class_distribution.values[i]/test_df.shape[0]*100), 3), '%)')

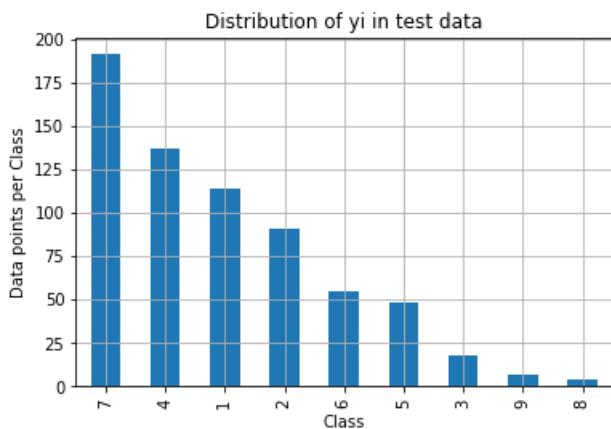
print('*'*80)
my_colors = 'rgbkymc'
cv_class_distribution.plot(kind='bar')
plt.xlabel('Class')
plt.ylabel('Data points per Class')
plt.title('Distribution of yi in cross validation data')
plt.grid()
plt.show()

# ref: argsort https://docs.scipy.org/doc/numpy/reference/generated/numpy.argsort.html
# -(cv_class_distribution.values): the minus sign will give us in decreasing order
sorted_yi = np.argsort(-cv_class_distribution.values)
for i in sorted_yi:
    print('Number of data points in class', i+1, ':', cv_class_distribution.values[i], '(', np.round((cv_class_distribution.values[i]/cv_df.shape[0]*100), 3), '%)')

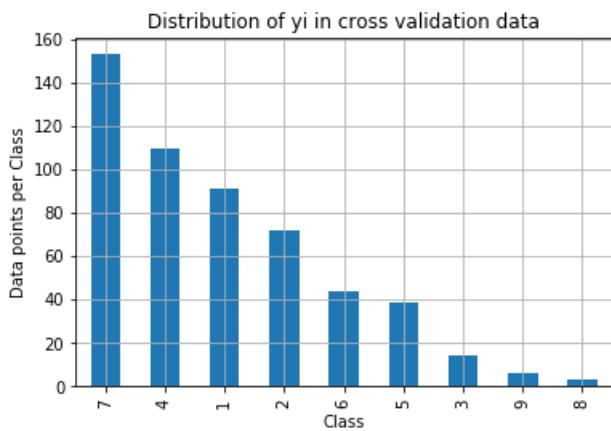
```



Number of data points in class 1 : 609 (28.672 %)
 Number of data points in class 2 : 439 (20.669 %)
 Number of data points in class 3 : 363 (17.09 %)
 Number of data points in class 4 : 289 (13.606 %)
 Number of data points in class 5 : 176 (8.286 %)
 Number of data points in class 6 : 155 (7.298 %)
 Number of data points in class 7 : 57 (2.684 %)
 Number of data points in class 8 : 24 (1.13 %)
 Number of data points in class 9 : 12 (0.565 %)



Number of data points in class 1 : 191 (28.722 %)
 Number of data points in class 2 : 137 (20.602 %)
 Number of data points in class 3 : 114 (17.143 %)
 Number of data points in class 4 : 91 (13.684 %)
 Number of data points in class 5 : 55 (8.271 %)
 Number of data points in class 6 : 48 (7.218 %)
 Number of data points in class 7 : 18 (2.707 %)
 Number of data points in class 8 : 7 (1.053 %)
 Number of data points in class 9 : 4 (0.602 %)



Number of data points in class 1 : 153 (28.759 %)
 Number of data points in class 2 : 110 (20.677 %)
 Number of data points in class 3 : 91 (17.105 %)
 Number of data points in class 4 : 72 (13.534 %)
 Number of data points in class 5 : 44 (8.271 %)
 Number of data points in class 6 : 39 (7.331 %)
 Number of data points in class 7 : 14 (2.632 %)
 Number of data points in class 8 : 6 (1.128 %)
 Number of data points in class 9 : 3 (0.564 %)

3.2 Prediction using a 'Random' Model

In a 'Random' Model, we generate the NINE class probabilities randomly such that they sum to 1.

In [0]:

```
# This function plots the confusion matrices given y_i, y_i_hat.
def plot_confusion_matrix(test_y, predict_y):
    C = confusion_matrix(test_y, predict_y)
    # C is 9x9 matrix, each cell (i,j) represents number of points of class i are predicted class j

    A = (((C.T)/(C.sum(axis=1))).T)
    # divid each element of the confusion matrix with the sum of elements in that column

    # C = [[1, 2],
    #      [3, 4]]
```

```

# C.T = [[1, 3],
#         [2, 4]]
# C.sum(axis = 1) axis=0 corresponds to columns and axis=1 corresponds to rows in two dimensional array
# C.sum(axis =1) = [[3, 7]]
# ((C.T)/(C.sum(axis=1))) = [[1/3, 3/7]
#                             [2/3, 4/7]]

# ((C.T)/(C.sum(axis=1))).T = [[1/3, 2/3]
#                               [3/7, 4/7]]
# sum of row elements = 1

B =(C/C.sum(axis=0))
#divid each element of the confusion matrix with the sum of elements in that row
# C = [[1, 2],
#       [3, 4]]
# C.sum(axis = 0) axis=0 corresponds to columns and axis=1 corresponds to rows in two dimensional array
# C.sum(axis =0) = [[4, 6]]
# (C/C.sum(axis=0)) = [[1/4, 2/6],
#                       [3/4, 4/6]]

labels = [1,2,3,4,5,6,7,8,9]
# representing A in heatmap format
print("-"*20, "Confusion matrix", "*"-20)
plt.figure(figsize=(20,7))
sns.heatmap(C, annot=True, cmap="YIGnBu", fmt=".3f", xticklabels=labels, yticklabels=labels)
plt.xlabel('Predicted Class')
plt.ylabel('Original Class')
plt.show()

print("-"*20, "Precision matrix (Column Sum=1)", "*"-20)
plt.figure(figsize=(20,7))
sns.heatmap(B, annot=True, cmap="YIGnBu", fmt=".3f", xticklabels=labels, yticklabels=labels)
plt.xlabel('Predicted Class')
plt.ylabel('Original Class')
plt.show()

# representing B in heatmap format
print("-"*20, "Recall matrix (Row sum=1)", "*"-20)
plt.figure(figsize=(20,7))
sns.heatmap(A, annot=True, cmap="YIGnBu", fmt=".3f", xticklabels=labels, yticklabels=labels)
plt.xlabel('Predicted Class')
plt.ylabel('Original Class')
plt.show()

```

In [61]:

```

# we need to generate 9 numbers and the sum of numbers should be 1
# one solution is to generate 9 numbers and divide each of the numbers by their sum
# ref: https://stackoverflow.com/a/18662466/4084039
test_data_len = test_df.shape[0]
cv_data_len = cv_df.shape[0]

# we create a output array that has exactly same size as the CV data
cv_predicted_y = np.zeros((cv_data_len,9))
for i in range(cv_data_len):
    rand_probs = np.random.rand(1,9)
    cv_predicted_y[i] = ((rand_probs/sum(sum(rand_probs)))[0])
print("Log loss on Cross Validation Data using Random Model",log_loss(y_cv,cv_predicted_y, eps=1e-15))

# Test-Set error.
#we create a output array that has exactly same as the test data
test_predicted_y = np.zeros((test_data_len,9))
for i in range(test_data_len):
    rand_probs = np.random.rand(1,9)
    test_predicted_y[i] = ((rand_probs/sum(sum(rand_probs)))[0])
print("Log loss on Test Data using Random Model",log_loss(y_test,test_predicted_y, eps=1e-15))

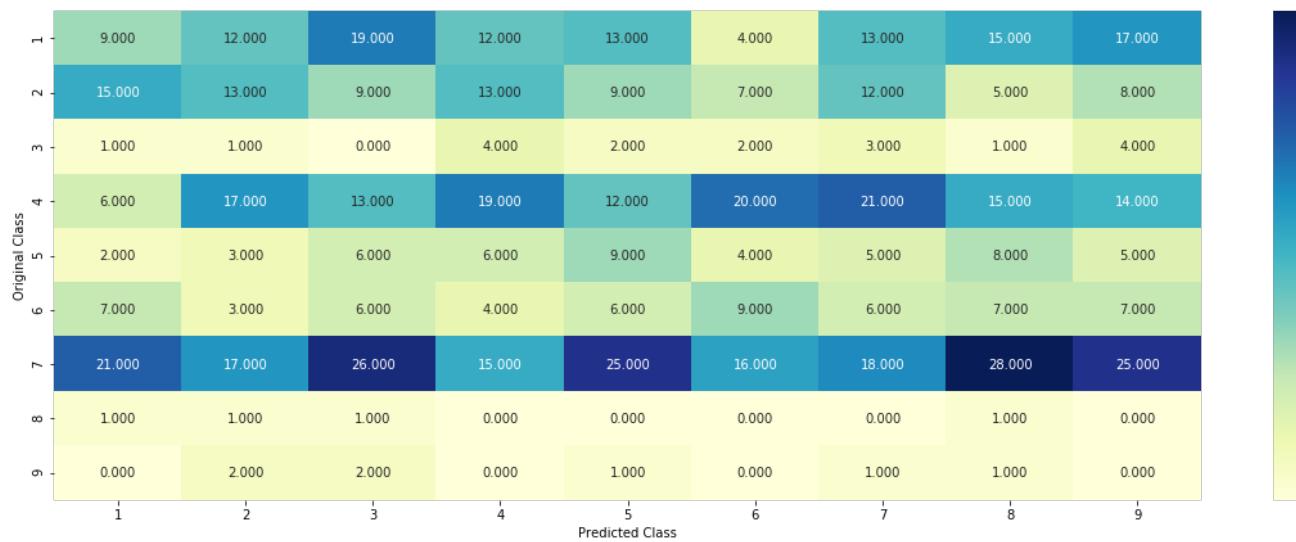
predicted_y = np.argmax(test_predicted_y, axis=1)
plot_confusion_matrix(y_test, predicted_y+1)

```

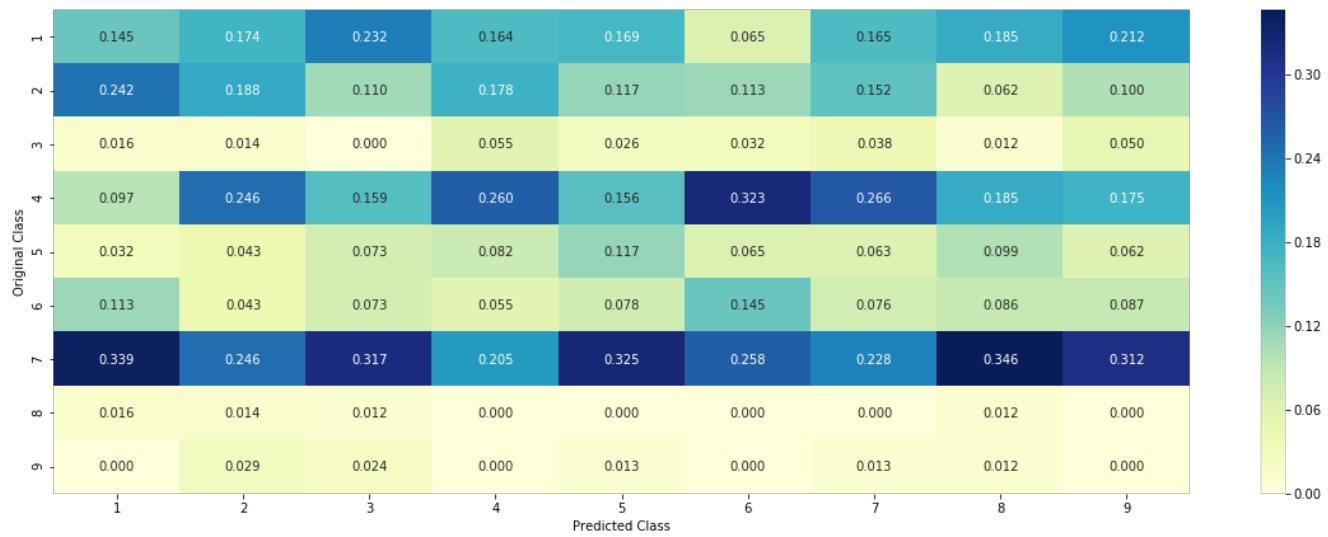
Log loss on Cross Validation Data using Random Model 2.4756421910194684

Log loss on Test Data using Random Model 2.5083854670299246

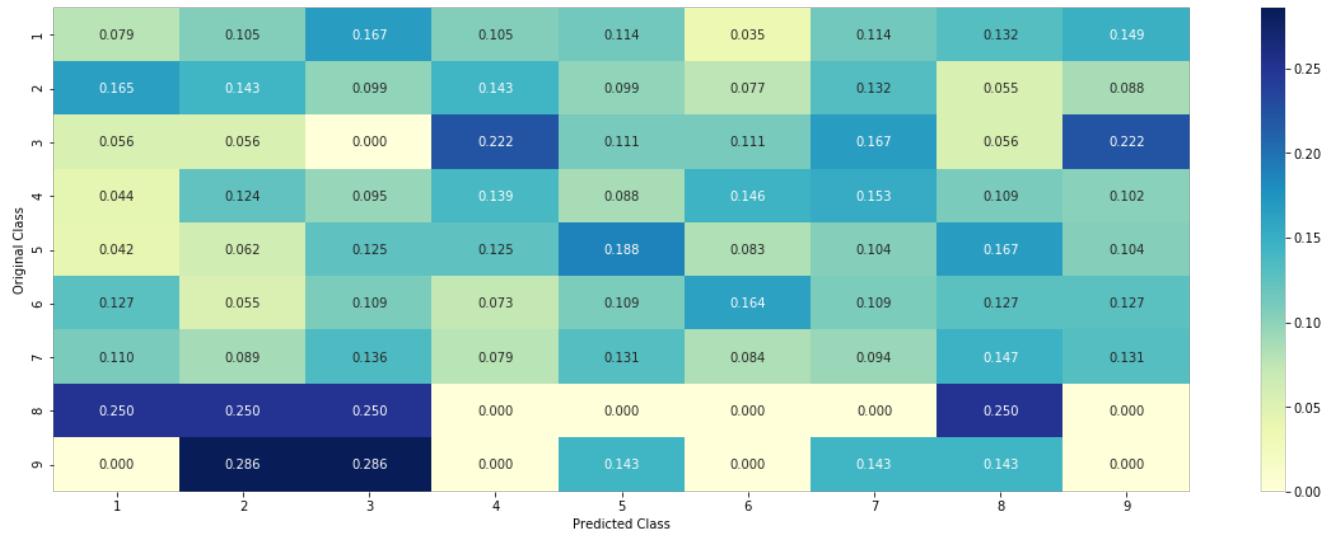
----- Confusion matrix -----



----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



3.3 Univariate Analysis

In [0]:

code for nonparametric modeling with Laplace smoothing

```

# code for response coding with Laplace smoothing.
# alpha : used for laplace smoothing
# feature: ['gene', 'variation']
# df: ['train_df', 'test_df', 'cv_df']
# algorithm
# -----
# Consider all unique values and the number of occurrences of given feature in train data dataframe
# build a vector (1*9) , the first element = (number of times it occurred in class1 + 10*alpha / number of time it occurred in total data+90*alpha)
# gv_dict is like a look up table, for every gene it store a (1*9) representation of it
# for a value of feature in df:
# if it is in train data:
# we add the vector that was stored in 'gv_dict' look up table to 'gv_fea'
# if it is not there is train:
# we add [1/9, 1/9, 1/9, 1/9, 1/9, 1/9, 1/9, 1/9] to 'gv_fea'
# return 'gv_fea'
# -----
# get_gv_fea_dict: Get Gene variation Feature Dict
def get_gv_fea_dict(alpha, feature, df):
    # value_count: it contains a dict like
    # print(train_df['Gene'].value_counts())
    # output:
    # {BRCA1    174
    #  TP53     106
    #  EGFR      86
    #  BRCA2     75
    #  PTEN      69
    #  KIT       61
    #  BRAF      60
    #  ERBB2     47
    #  PDGFRA    46
    #  ...
    # print(train_df['Variation'].value_counts())
    # output:
    # {
    # Truncating_Mutations      63
    # Deletion                  43
    # Amplification              43
    # Fusions                   22
    # Overexpression             3
    # E17K                      3
    # Q61L                      3
    # S222D                     2
    # P130S                     2
    # ...
    # }
    value_count = train_df[feature].value_counts()

    # gv_dict : Gene Variation Dict, which contains the probability array for each gene/variation
    gv_dict = dict()

    # denominator will contain the number of time that particular feature occurred in whole data
    for i, denominator in value_count.items():
        # vec will contain ( $p(y_i=1|G_i)$ ) probability of gene/variation belongs to particular class
        # vec is 9 dimensional vector
        vec = []
        for k in range(1,10):
            # print(train_df.loc[(train_df['Class']==1) & (train_df['Gene']=='BRCA1')])
            # ID Gene Variation Class
            # 2470 2470 BRCA1      S1715C   1
            # 2486 2486 BRCA1      S1841R   1
            # 2614 2614 BRCA1      M1R      1
            # 2432 2432 BRCA1      L1657P   1
            # 2567 2567 BRCA1      T1685A   1
            # 2583 2583 BRCA1      E1660G   1
            # 2634 2634 BRCA1      W1718L   1
            # cls_cnt.shape[0] will return the number of rows

            cls_cnt = train_df.loc[(train_df['Class']==k) & (train_df[feature]==i)]

            # cls_cnt.shape[0](numerator) will contain the number of time that particular feature occurred in whole data
            vec.append((cls_cnt.shape[0] + alpha*10) / (denominator + 90*alpha))

        # we are adding the gene/variation to the dict as key and vec as value
        gv_dict[i]=vec
    return gv_dict

```

```

# Get Gene variation feature
def get_gv_feature(alpha, feature, df):
    # print(gv_dict)
    # {'BRCA1': [0.200757575757575, 0.03787878787878788, 0.0681818181818177, 0.13636363636363635, 0.25, 0.193181
81818181818, 0.03787878787878788, 0.03787878787878788, 0.03787878787878788],
     # 'TP53': [0.32142857142857145, 0.061224489795918366, 0.061224489795918366, 0.27040816326530615, 0.061224489795
918366, 0.066326530612244902, 0.051020408163265307, 0.051020408163265307, 0.056122448979591837],
     # 'EGFR': [0.0568181818181816, 0.21590909090909091, 0.0625, 0.06818181818177, 0.06818181818177, 0.062
5, 0.346590909090912, 0.0625, 0.0568181818181816],
     # 'BRCA2': [0.1333333333333333, 0.060606060606060608, 0.060606060606060608, 0.0787878787878782, 0.139393939
3939394, 0.34545454545454546, 0.060606060606060608, 0.060606060606060608, 0.060606060606060608],
     # 'PTEN': [0.069182389937106917, 0.062893081761006289, 0.069182389937106917, 0.46540880503144655, 0.075471698
13207544, 0.062893081761006289, 0.069182389937106917, 0.062893081761006289, 0.062893081761006289],
     # 'KIT': [0.066225165562913912, 0.25165562913907286, 0.072847682119205295, 0.072847682119205295, 0.066225165562
913912, 0.066225165562913912, 0.27152317880794702, 0.066225165562913912, 0.066225165562913912],
     # 'BRAF': [0.066666666666666666, 0.17999999999999999, 0.07333333333333334, 0.07333333333333334, 0.0933333333
3333338, 0.08000000000000002, 0.29999999999999999, 0.066666666666666666, 0.066666666666666666],
     # ...
     # }
    gv_dict = get_gvfea_dict(alpha, feature, df)
    # value_count is similar in get_gvfea_dict
    value_count = train_df[feature].value_counts()

    # gvfea: Gene_variation feature, it will contain the feature for each feature value in the data
    gvfea = []
    # for every feature values in the given data frame we will check if it is there in the train data then we will add the feature to gvfea
    # if not we will add [1/9,1/9,1/9,1/9,1/9,1/9,1/9,1/9] to gvfea
    for index, row in df.iterrows():
        if row[feature] in dict(value_count).keys():
            gvfea.append(gv_dict[row[feature]])
        else:
            gvfea.append([1/9,1/9,1/9,1/9,1/9,1/9,1/9,1/9])
    #     gvfea.append([-1,-1,-1,-1,-1,-1,-1,-1])
    return gvfea

```

when we calculate the probability of a feature belongs to any particular class, we apply laplace smoothing

- $(\text{numerator} + 10^{\alpha}) / (\text{denominator} + 90^{\alpha})$

3.2.1 Univariate Analysis on Gene Feature

Q1. Gene, What type of feature it is ?

Ans. Gene is a categorical variable

Q2. How many categories are there and How they are distributed?

In [63]:

```

unique_genes = train_df['Gene'].value_counts()
print('Number of Unique Genes :', unique_genes.shape[0])
# the top 10 genes that occurred most
print(unique_genes.head(10))

```

Number of Unique Genes : 235

BRCA1	178
EGFR	94
TP53	91
BRCA2	76
PTEN	75
KIT	67
BRAF	58
ERBB2	42
ALK	38
PIK3CA	37

Name: Gene, dtype: int64

In [64]:

```

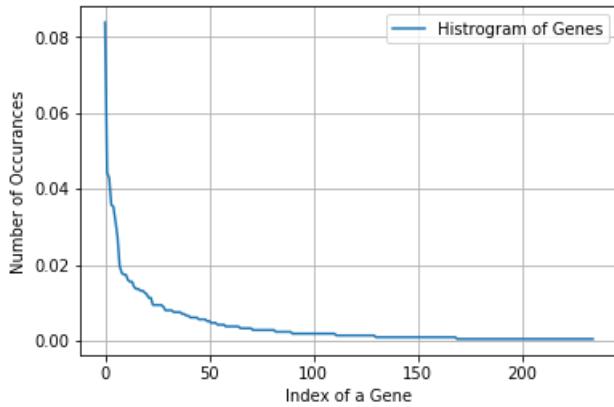
print("Ans: There are", unique_genes.shape[0], "different categories of genes in the train data, and they are distributed as follows")

```

Ans: There are 235 different categories of genes in the train data, and they are distributed as follows

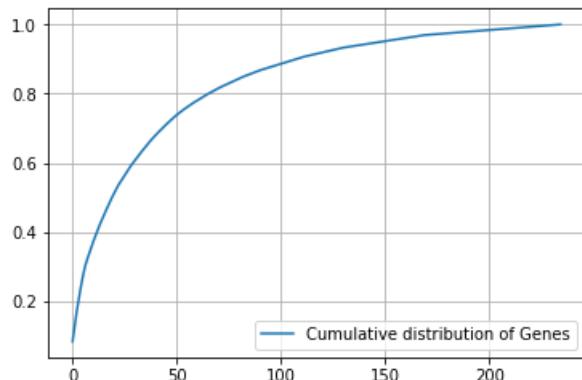
In [65]:

```
s = sum(unique_genes.values);
h = unique_genes.values/s;
plt.plot(h, label="Histogram of Genes")
plt.xlabel('Index of a Gene')
plt.ylabel('Number of Occurrences')
plt.legend()
plt.grid()
plt.show()
```



In [66]:

```
c = np.cumsum(h)
plt.plot(c,label='Cumulative distribution of Genes')
plt.grid()
plt.legend()
plt.show()
```



Q3. How to featurize this Gene feature ?

Ans. there are two ways we can featurize this variable check out this video:

<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/handling-categorical-and-numerical-features/>

1. One hot Encoding
2. Response coding

We will choose the appropriate featurization based on the ML model we use. For this problem of multi-class classification with categorical features, one-hot encoding is better for Logistic regression while response coding is better for Random Forests.

In [0]:

```
#response-coding of the Gene feature
# alpha is used for laplace smoothing
alpha = 1
# train gene feature
```

```
# train gene feature
train_gene_feature_responseCoding = np.array(get_gv_feature(alpha, "Gene", train_df))
# test gene feature
test_gene_feature_responseCoding = np.array(get_gv_feature(alpha, "Gene", test_df))
# cross validation gene feature
cv_gene_feature_responseCoding = np.array(get_gv_feature(alpha, "Gene", cv_df))
```

In [68]:

```
print("train_gene_feature_responseCoding is converted feature using response coding method. The shape of gene feature:", train_gene_feature_responseCoding.shape)
```

```
train_gene_feature_responseCoding is converted feature using response coding method. The shape of gene feature: (2124, 9)
```

In [0]:

```
# one-hot encoding of Gene feature.
gene_vectorizer = CountVectorizer(min_df=3)
train_gene_feature_onehotCoding = gene_vectorizer.fit_transform(train_df['Gene'])
test_gene_feature_onehotCoding = gene_vectorizer.transform(test_df['Gene'])
cv_gene_feature_onehotCoding = gene_vectorizer.transform(cv_df['Gene'])
```

In [70]:

```
train_df['Gene'].head()
```

Out[70]:

```
1907  SMARCA4
2705  BRAF
2338  JAK2
3162  RAF1
1782  AR
Name: Gene, dtype: object
```

In [71]:

```
gene_vectorizer.get_feature_names()
```

Out[71]:

```
['abl1',
'akt1',
'akt2',
'akt3',
'alk',
'ar',
'araf',
'b2m',
'bap1',
'bcor',
'braf',
'brca1',
'brca2',
'brip1',
'card11',
'cbl',
'ccnd1',
'ccnd3',
'cdk12',
'cdkn1a',
'cdkn1b',
'cdkn2a',
'cdkn2b',
'chek2',
'cic',
'crebbp',
'ctcf',
'ctnnb1',
'ddr2',
'dicer1',
'dnmt3a',
'~']
```

egfr,
'ep300',
'epas1',
'erb2b',
'erb3b',
'erb4b',
'ercc2',
'esr1',
'etv6',
'ewsr1',
'ezh2',
'fanca',
'fat1',
'fbxw7',
'fgfr1',
'fgfr2',
'fgfr3',
'flt3',
'foxa1',
'hras',
'idh1',
'idh2',
'jak1',
'jak2',
'kdm5c',
'kdr',
'keap1',
'kit',
'kmt2c',
'knstrn',
'kras',
'map2k1',
'map2k2',
'map2k4',
'map3k1',
'med12',
'mef2b',
'met',
'mlh1',
'msh2',
'msh6',
'mtor',
'myc',
'nf1',
'nf2',
'nfe2l2',
'nkbia',
'nkx2',
'notch1',
'nras',
'ntrk1',
'ntrk2',
'pdgfra',
'pdgfrb',
'pik3ca',
'pik3cb',
'pik3cd',
'pik3r1',
'pik3r2',
'pim1',
'pms2',
'pole',
'ppp2r1a',
'ppp6c',
'prdm1',
'pten',
'ptpn11',
'ptprd',
'ptprt',
'rac1',
'raf1',
'rasa1',
'rb1',
'rbm10',
'ret',
'rhoa',
'rit1',
'...-1'

```
ros1',
'runx1',
'sf3b1',
'smad2',
'smad3',
'smad4',
'smarca4',
'smo',
'sos1',
'sox9',
'spop',
'stk11',
'tert',
'tet1',
'tet2',
'tgfbr1',
'tgfbr2',
'tmprss2',
'tp53',
'tsc1',
'tsc2',
'vehl']
```

In [72]:

```
print("train_gene_feature_onehotCoding is converted feature using one-hot encoding method. The shape of gene feature:", train_gene_feature_onehotCoding.shape)
```

```
train_gene_feature_onehotCoding is converted feature using one-hot encoding method. The shape of gene feature: (2124, 130)
```

Q4. How good is this gene feature in predicting y_i ?

There are many ways to estimate how good a feature is, in predicting y_i . One of the good methods is to build a proper ML model using just this feature. In this case, we will build a logistic regression model using only Gene feature (one hot encoded) to predict y_i .

In [73]:

```
alpha = [10 ** x for x in range(-5, 1)] # hyperparam for SGD classifier.

# read more about SGDClassifier() at http://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

#-----
# video link:
#-----


cv_log_error_array=[]
for i in alpha:
    clf = SGDClassifier(alpha=i, penalty='l2', loss='log', random_state=42)
    clf.fit(train_gene_feature_onehotCoding, y_train)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_gene_feature_onehotCoding, y_train)
    predict_y = sig_clf.predict_proba(cv_gene_feature_onehotCoding)
    cv_log_error_array.append(log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
    print('For values of alpha = ', i, "The log loss is:", log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[i],np.round(txt,3)), (alpha[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
```

```

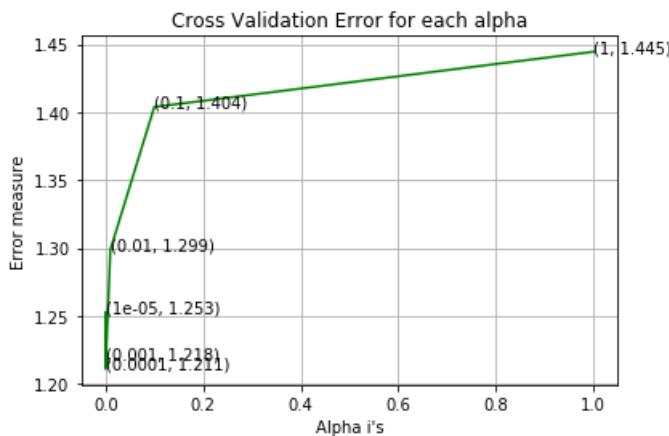
plt.show()

best_alpha = np.argmin(cv_log_error_array)
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_gene_feature_onehotCoding, y_train)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_gene_feature_onehotCoding, y_train)

predict_y = sig_clf.predict_proba(train_gene_feature_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:", log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-1
5))
predict_y = sig_clf.predict_proba(cv_gene_feature_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:", log_loss(y_cv, predict_y, labels=clf.classes_,
eps=1e-15))
predict_y = sig_clf.predict_proba(test_gene_feature_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:", log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15)
)

```

For values of alpha = 1e-05 The log loss is: 1.2525897816112062
 For values of alpha = 0.0001 The log loss is: 1.2109179140451132
 For values of alpha = 0.001 The log loss is: 1.2183432949124977
 For values of alpha = 0.01 The log loss is: 1.2986200710458478
 For values of alpha = 0.1 The log loss is: 1.4038170474456269
 For values of alpha = 1 The log loss is: 1.4445117597793782



For values of best alpha = 0.0001 The train log loss is: 1.0555593168083293
 For values of best alpha = 0.0001 The cross validation log loss is: 1.2109179140451132
 For values of best alpha = 0.0001 The test log loss is: 1.2152154740167371

Q5. Is the Gene feature stable across all the data sets (Test, Train, Cross validation)?

Ans. Yes, it is. Otherwise, the CV and Test errors would be significantly more than train error.

In [74]:

```

print("Q6. How many data points in Test and CV datasets are covered by the ", unique_genes.shape[0], " genes in train dataset?")

test_coverage=test_df[test_df['Gene'].isin(list(set(train_df['Gene'])))].shape[0]
cv_coverage=cv_df[cv_df['Gene'].isin(list(set(train_df['Gene'])))].shape[0]

print('Ans\n1. In test data',test_coverage, 'out of',test_df.shape[0], ":" ,(test_coverage/test_df.shape[0])*100)
print('2. In cross validation data',cv_coverage, 'out of',cv_df.shape[0], ":" ,(cv_coverage/cv_df.shape[0])*100)

```

Q6. How many data points in Test and CV datasets are covered by the 235 genes in train dataset?
 Ans

1. In test data 648 out of 665 : 97.44360902255639
2. In cross validation data 517 out of 532 : 97.18045112781954

3.2.2 Univariate Analysis on Variation Feature

Q7. Variation, What type of feature is it ?

Ans. Variation is a categorical variable

Q8. How many categories are there?

In [75]:

```
unique_variations = train_df['Variation'].value_counts()  
print('Number of Unique Variations :', unique_variations.shape[0])  
# the top 10 variations that occurred most  
print(unique_variations.head(10))
```

Number of Unique Variations : 1925

Truncating_Mutations 68

Deletion 53

Amplification 43

Fusions 22

Overexpression 4

G12V 3

Q61L 2

E17K 2

V321M 2

Q22K 2

Name: Variation, dtype: int64

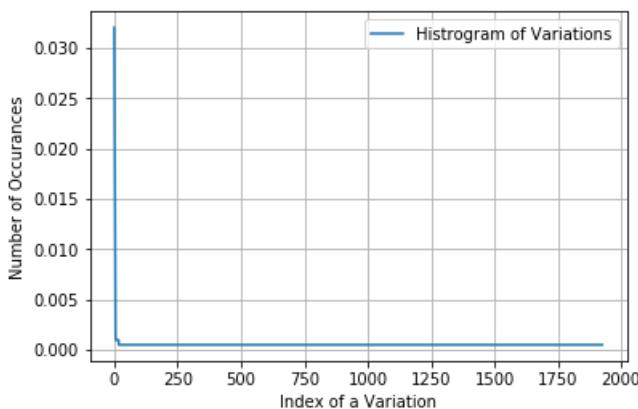
In [76]:

```
print("Ans: There are", unique_variations.shape[0] , "different categories of variations in the train data, and they are distributed as follows")
```

Ans: There are 1925 different categories of variations in the train data, and they are distributed as follows

In [77]:

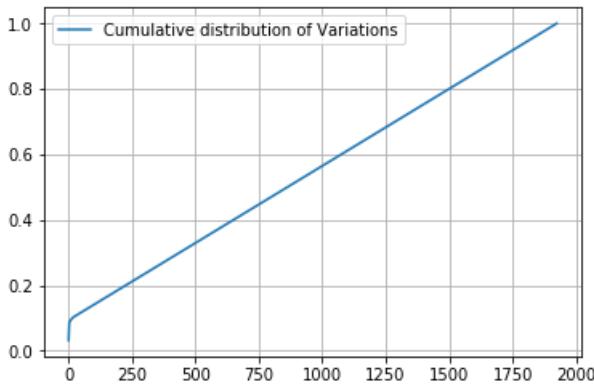
```
s = sum(unique_variations.values);  
h = unique_variations.values/s;  
plt.plot(h, label="Histogram of Variations")  
plt.xlabel('Index of a Variation')  
plt.ylabel('Number of Occurrences')  
plt.legend()  
plt.grid()  
plt.show()
```



In [78]:

```
c = np.cumsum(h)  
print(c)  
plt.plot(c,label='Cumulative distribution of Variations')  
plt.grid()  
plt.legend()  
plt.show()
```

[0.03201507 0.05696798 0.07721281 ... 0.99905838 0.99952919 1.]



Q9. How to featurize this Variation feature ?

Ans. There are two ways we can featurize this variable check out this video:

<https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/handling-categorical-and-numerical-features/>

1. One hot Encoding
2. Response coding

We will be using both these methods to featurize the Variation Feature

In [0]:

```
# alpha is used for laplace smoothing
alpha = 1
# train gene feature
train_variation_feature_responseCoding = np.array(get_gv_feature(alpha, "Variation", train_df))
# test gene feature
test_variation_feature_responseCoding = np.array(get_gv_feature(alpha, "Variation", test_df))
# cross validation gene feature
cv_variation_feature_responseCoding = np.array(get_gv_feature(alpha, "Variation", cv_df))
```

In [80]:

```
print("train_variation_feature_responseCoding is a converted feature using the response coding method. The shape of Variation feature:", train_variation_feature_responseCoding.shape)
```

train_variation_feature_responseCoding is a converted feature using the response coding method. The shape of Variation feature: (2124, 9)

In [0]:

```
# one-hot encoding of variation feature.
variation_vectorizer = CountVectorizer(min_df=3)
train_variation_feature_onehotCoding = variation_vectorizer.fit_transform(train_df['Variation'])
test_variation_feature_onehotCoding = variation_vectorizer.transform(test_df['Variation'])
cv_variation_feature_onehotCoding = variation_vectorizer.transform(cv_df['Variation'])
```

In [82]:

```
print("train_variation_feature_onehotEncoded is converted feature using the onne-hot encoding method. The shape of Variation feature:", train_variation_feature_onehotCoding.shape)
```

train_variation_feature_onehotEncoded is converted feature using the onne-hot encoding method. The shape of Variation feature: (2124, 19)

Q10. How good is this Variation feature in predicting y_i?

Let's build a model just like the earlier!

III [83]:

```
alpha = [10 ** x for x in range(-5, 1)]  
  
# read more about SGDClassifier() at http://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html  
# -----  
# default parameters  
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=None, tol=None,  
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5,  
# class_weight=None, warm_start=False, average=False, n_iter=None)  
  
# some of methods  
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.  
# predict(X) Predict class labels for samples in X.  
  
#-----  
# video link:  
#-----  
  
cv_log_error_array=[]  
for i in alpha:  
    clf = SGDClassifier(alpha=i, penalty='l2', loss='log', random_state=42)  
    clf.fit(train_variation_feature_onehotCoding, y_train)  
  
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")  
    sig_clf.fit(train_variation_feature_onehotCoding, y_train)  
    predict_y = sig_clf.predict_proba(cv_variation_feature_onehotCoding)  
  
    cv_log_error_array.append(log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))  
    print('For values of alpha = ', i, "The log loss is:",log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))  
  
fig, ax = plt.subplots()  
ax.plot(alpha, cv_log_error_array,c='g')  
for i, txt in enumerate(np.round(cv_log_error_array,3)):  
    ax.annotate((alpha[i],np.round(txt,3)), (alpha[i],cv_log_error_array[i]))  
plt.grid()  
plt.title("Cross Validation Error for each alpha")  
plt.xlabel("Alpha i's")  
plt.ylabel("Error measure")  
plt.show()  
  
best_alpha = np.argmin(cv_log_error_array)  
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)  
clf.fit(train_variation_feature_onehotCoding, y_train)  
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")  
sig_clf.fit(train_variation_feature_onehotCoding, y_train)  
  
predict_y = sig_clf.predict_proba(train_variation_feature_onehotCoding)  
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:",log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))  
predict_y = sig_clf.predict_proba(cv_variation_feature_onehotCoding)  
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:",log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))  
predict_y = sig_clf.predict_proba(test_variation_feature_onehotCoding)  
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:",log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))  
)
```

For values of alpha = 1e-05 The log loss is: 1.7508788658735799

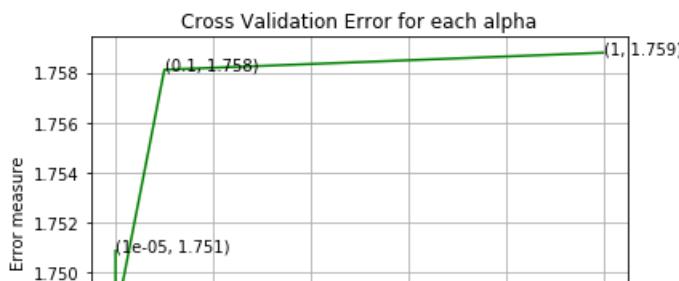
For values of alpha = 0.0001 The log loss is: 1.7461248504175981

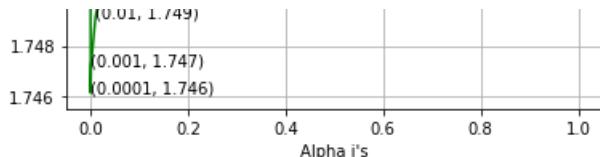
For values of alpha = 0.001 The log loss is: 1.747215890614718

For values of alpha = 0.01 The log loss is: 1.7491542970343512

For values of alpha = 0.1 The log loss is: 1.7581137607743669

For values of alpha = 1 The log loss is: 1.758790310655956





For values of best alpha = 0.0001 The train log loss is: 1.6894650709692391
 For values of best alpha = 0.0001 The cross validation log loss is: 1.7461248504175981
 For values of best alpha = 0.0001 The test log loss is: 1.7103046506004502

Q11. Is the Variation feature stable across all the data sets (Test, Train, Cross validation)?

Ans. Not sure! But lets be very sure using the below analysis.

In [84]:

```
print("Q12. How many data points are covered by total ", unique_variations.shape[0], " genes in test and cross validation data sets?")
test_coverage=test_df[test_df['Variation'].isin(list(set(train_df['Variation'])))].shape[0]
cv_coverage=cv_df[cv_df['Variation'].isin(list(set(train_df['Variation'])))].shape[0]
print('Ans\n1. In test data',test_coverage, 'out of',test_df.shape[0], ":" ,(test_coverage/test_df.shape[0])*100)
print('2. In cross validation data',cv_coverage, 'out of ',cv_df.shape[0], ":" ,(cv_coverage/cv_df.shape[0])*100)
```

Q12. How many data points are covered by total 1925 genes in test and cross validation data sets?

Ans

1. In test data 68 out of 665 : 10.225563909774436
2. In cross validation data 50 out of 532 : 9.398496240601503

3.2.3 Univariate Analysis on Text Feature

1. How many unique words are present in train data?
2. How are word frequencies distributed?
3. How to featurize text field?
4. Is the text feature useful in predicting y_i?
5. Is the text feature stable across train, test and CV datasets?

In [0]:

```
# cls_text is a data frame
# for every row in data fram consider the 'TEXT'
# split the words by space
# make a dict with those words
# increment its count whenever we see that word

def extract_dictionary_paddle(cls_text):
    dictionary = defaultdict(int)
    for index, row in cls_text.iterrows():
        for word in row['TEXT'].split():
            dictionary[word] +=1
    return dictionary
```

In [0]:

```
import math
#https://stackoverflow.com/a/1602964
def get_text_responseCoding(df):
    text_feature_responseCoding = np.zeros((df.shape[0],9))
    for i in range(0,9):
        row_index = 0
        for index, row in df.iterrows():
            sum_prob = 0
            for word in row['TEXT'].split():
                sum_prob += math.log(((dict_list[i].get(word,0)+10)/(total_dict.get(word,0)+90)))
            text_feature_responseCoding[row_index][i] = math.exp(sum_prob/len(row['TEXT'].split()))
            row_index += 1
    return text_feature_responseCoding
```

In [8]:

```
# building a CountVectorizer with all the words that occurred minimum 3 times in train data
text_vectorizer = TfidfVectorizer(min_df = 3)
train_text_feature_onehotCoding = text_vectorizer.fit_transform(train_df['TEXT'])
# getting all the feature names (words)
train_text_features= text_vectorizer.get_feature_names()

# train_text_feature_onehotCoding.sum(axis=0).A1 will sum every row and returns (1*number of features) vector
train_text_fea_counts = train_text_feature_onehotCoding.sum(axis=0).A1

# zip(list(text_features),text_fea_counts) will zip a word with its number of times it occurred
text_fea_dict = dict(zip(train_text_features),train_text_fea_counts)

print("Total number of unique words in train data :", len(train_text_features))
```

Total number of unique words in train data : 53815

In [0]:

```
dict_list = []
# dict_list [] contains 9 dictionaries each corresponds to a class
for i in range(1,10):
    cls_text = train_df[train_df['Class']==i]
    # build a word dict based on the words in that class
    dict_list.append(extract_dictionary_paddle(cls_text))
    # append it to dict_list

# dict_list[i] is build on i'th class text data
# total_dict is build on whole training text data
total_dict = extract_dictionary_paddle(train_df)

confuse_array = []
for i in train_text_features:
    ratios = []
    max_val = -1
    for j in range(0,9):
        ratios.append((dict_list[j][i]+10)/(total_dict[i]+90))
    confuse_array.append(ratios)
confuse_array = np.array(confuse_array)
```

In [0]:

```
#response coding of text features
train_text_feature_responseCoding = get_text_responsecoding(train_df)
test_text_feature_responseCoding = get_text_responsecoding(test_df)
cv_text_feature_responseCoding = get_text_responsecoding(cv_df)
```

In [0]:

```
# https://stackoverflow.com/a/16202486
# we convert each row values such that they sum to 1
train_text_feature_responseCoding = (train_text_feature_responseCoding.T/train_text_feature_responseCoding.sum(axis=1)).T
test_text_feature_responseCoding = (test_text_feature_responseCoding.T/test_text_feature_responseCoding.sum(axis=1)).T
cv_text_feature_responseCoding = (cv_text_feature_responseCoding.T/cv_text_feature_responseCoding.sum(axis=1)).T
```

In [0]:

```
# don't forget to normalize every feature
train_text_feature_onehotCoding = normalize(train_text_feature_onehotCoding, axis=0)

# we use the same vectorizer that was trained on train data
test_text_feature_onehotCoding = text_vectorizer.transform(test_df['TEXT'])
# don't forget to normalize every feature
test_text_feature_onehotCoding = normalize(test_text_feature_onehotCoding, axis=0)

# we use the same vectorizer that was trained on train data
cv_text_feature_onehotCoding = text_vectorizer.transform(cv_df['TEXT'])
# don't forget to normalize every feature
cv_text_feature_onehotCoding = normalize(cv_text_feature_onehotCoding, axis=0)
```

In [0]:

#<https://stackoverflow.com/a/2258273/4084039>

```
sorted_text_fea_dict = dict(sorted(text_fea_dict.items(), key=lambda x: x[1], reverse=True))
sorted_text_occur = np.array(list(sorted_text_fea_dict.values()))
```

In [93]:

```
# Number of words for a given frequency.  
print(Counter(sorted_text_occur))
```

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```

In [94]:

```

# Train a Logistic regression+Calibration model using text features whicha re on-hot encoded
alpha = [10 ** x for x in range(-5, 1)]

# read more about SGDClassifier() at http://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

#-----
# video link:
#-----


cv_log_error_array=[]
for i in alpha:
    clf = SGDClassifier(alpha=i, penalty='l2', loss='log', random_state=42)
    clf.fit(train_text_feature_onehotCoding, y_train)

    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_text_feature_onehotCoding, y_train)
    predict_y = sig_clf.predict_proba(cv_text_feature_onehotCoding)
    cv_log_error_array.append(log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
    print('For values of alpha = ', i, "The log loss is:",log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))

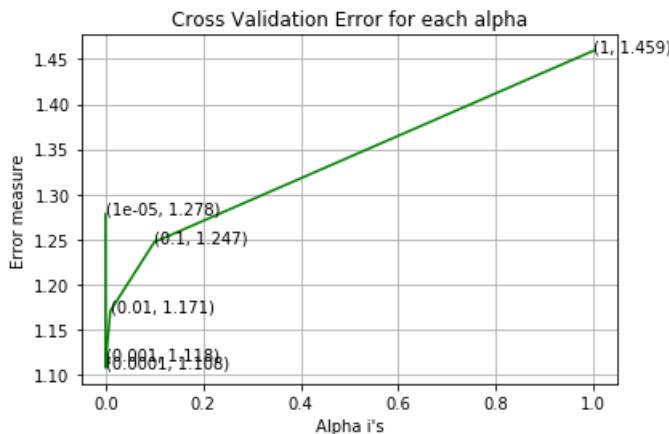
fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[i],np.round(txt,3)), (alpha[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

best_alpha = np.argmin(cv_log_error_array)
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_text_feature_onehotCoding, y_train)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_text_feature_onehotCoding, y_train)

predict_y = sig_clf.predict_proba(train_text_feature_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:",log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-1
5))
predict_y = sig_clf.predict_proba(cv_text_feature_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:",log_loss(y_cv, predict_y, labels=clf.classes_,
eps=1e-15))
predict_y = sig_clf.predict_proba(test_text_feature_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:",log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15)
)

```

For values of alpha = 1e-05 The log loss is: 1.278340987892066
For values of alpha = 0.0001 The log loss is: 1.1078698359612116
For values of alpha = 0.001 The log loss is: 1.1179770939799465
For values of alpha = 0.01 The log loss is: 1.1709686090802376
For values of alpha = 0.1 The log loss is: 1.2471292797269036
For values of alpha = 1 The log loss is: 1.4591235007270023



For values of best alpha = 0.0001 The train log loss is: 0.6295567941971726
 For values of best alpha = 0.0001 The cross validation log loss is: 1.1078698359612116
 For values of best alpha = 0.0001 The test log loss is: 1.1144146224133586

Q. Is the Text feature stable across all the data sets (Test, Train, Cross validation)?

Ans. Yes, it seems like!

In [0]:

```
def get_intersec_text(df):
    df_text_vec = CountVectorizer(min_df=3)
    df_text_fea = df_text_vec.fit_transform(df['TEXT'])
    df_text_features = df_text_vec.get_feature_names()

    df_textfea_counts = df_text_fea.sum(axis=0).A1
    df_textfea_dict = dict(zip(list(df_text_features),df_textfea_counts))
    len1 = len(set(df_text_features))
    len2 = len(set(train_text_features) & set(df_text_features))
    return len1,len2
```

In [96]:

```
len1,len2 = get_intersec_text(test_df)
print(np.round((len2/len1)*100, 3), "% of word of test data appeared in train data")
len1,len2 = get_intersec_text(cv_df)
print(np.round((len2/len1)*100, 3), "% of word of Cross Validation appeared in train data")
```

97.021 % of word of test data appeared in train data
 98.089 % of word of Cross Validation appeared in train data

4. Machine Learning Models

In [0]:

```
#Data preparation for ML models.

#Misc. functionns for ML models

def predict_and_plot_confusion_matrix(train_x, train_y,test_x, test_y, clf):
    clf.fit(train_x, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x, train_y)
    pred_y = sig_clf.predict(test_x)

    # for calculating log_loss we will provide the array of probabilities belongs to each class
    print("Log loss :",log_loss(test_y,sig_clf.predict_proba(test_x)))
    # calculating the number of data points that are misclassified
    print("Number of mis-classified points :", np.count_nonzero((pred_y- test_y))/test_y.shape[0])
    plot_confusion_matrix(test_y, pred_y)
```

In [0]:

```
def report_log_loss(train_x, train_y, test_x, test_y, clf):
    clf.fit(train_x, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x, train_y)
    sig_clf_probs = sig_clf.predict_proba(test_x)
    return log_loss(test_y, sig_clf_probs, eps=1e-15)
```

In [0]:

```
# this function will be used just for naive bayes
# for the given indices, we will print the name of the features
# and we will check whether the feature present in the test point text or not
def get_imfeature_names(indices, text, gene, var, no_features):
    gene_count_vec = CountVectorizer()
    var_count_vec = CountVectorizer()
    text_count_vec = CountVectorizer(min_df=3)

    gene_vec = gene_count_vec.fit(train_df['Gene'])
    var_vec = var_count_vec.fit(train_df['Variation'])
    text_vec = text_count_vec.fit(train_df['TEXT'])

    fea1_len = len(gene_vec.get_feature_names())
    fea2_len = len(var_count_vec.get_feature_names())

    word_present = 0
    for i,v in enumerate(indices):
        if (v < fea1_len):
            word = gene_vec.get_feature_names()[v]
            yes_no = True if word == gene else False
            if yes_no:
                word_present += 1
                print(i, "Gene feature [{}]\ present in test data point [{}]\n".format(word,yes_no))
        elif (v < fea1_len+fea2_len):
            word = var_vec.get_feature_names()[v-(fea1_len)]
            yes_no = True if word == var else False
            if yes_no:
                word_present += 1
                print(i, "variation feature [{}]\ present in test data point [{}]\n".format(word,yes_no))
        else:
            word = text_vec.get_feature_names()[v-(fea1_len+fea2_len)]
            yes_no = True if word in text.split() else False
            if yes_no:
                word_present += 1
                print(i, "Text feature [{}]\ present in test data point [{}]\n".format(word,yes_no))

    print("Out of the top ",no_features," features ", word_present, "are present in query point")
```

Stacking the three types of features

In [0]:

```
# merging gene, variance and text features

# building train, test and cross validation data sets
# a = [[1, 2],
#       [3, 4]]
# b = [[4, 5],
#       [6, 7]]
# hstack(a, b) = [[1, 2, 4, 5],
#                  [3, 4, 6, 7]]

train_gene_var_onehotCoding = hstack((train_gene_feature_onehotCoding,train_variation_feature_onehotCoding))
test_gene_var_onehotCoding = hstack((test_gene_feature_onehotCoding,test_variation_feature_onehotCoding))
cv_gene_var_onehotCoding = hstack((cv_gene_feature_onehotCoding,cv_variation_feature_onehotCoding))

train_x_onehotCoding = hstack((train_gene_var_onehotCoding, train_text_feature_onehotCoding)).tocsr()
train_y = np.array(list(train_df['Class']))

test_x_onehotCoding = hstack((test_gene_var_onehotCoding, test_text_feature_onehotCoding)).tocsr()
```

```

test_x_onehotCoding = hstack((cv_gene_var_onehotCoding, cv_text_feature_onehotCoding)).tocsr()
test_y = np.array(list(test_df['Class']))

cv_x_onehotCoding = hstack((cv_gene_var_onehotCoding, cv_text_feature_onehotCoding)).tocsr()
cv_y = np.array(list(cv_df['Class']))

train_gene_var_responseCoding = np.hstack((train_gene_feature_responseCoding, train_variation_feature_responseCoding))
test_gene_var_responseCoding = np.hstack((test_gene_feature_responseCoding, test_variation_feature_responseCoding))
cv_gene_var_responseCoding = np.hstack((cv_gene_feature_responseCoding, cv_variation_feature_responseCoding))

train_x_responseCoding = np.hstack((train_gene_var_responseCoding, train_text_feature_responseCoding))
test_x_responseCoding = np.hstack((test_gene_var_responseCoding, test_text_feature_responseCoding))
cv_x_responseCoding = np.hstack((cv_gene_var_responseCoding, cv_text_feature_responseCoding))

```

In [101]:

```

print("One hot encoding features :")
print("(number of data points * number of features) in train data = ", train_x_onehotCoding.shape)
print("(number of data points * number of features) in test data = ", test_x_onehotCoding.shape)
print("(number of data points * number of features) in cross validation data = ", cv_x_onehotCoding.shape)

```

One hot encoding features :

(number of data points * number of features) in train data = (2124, 53964)
 (number of data points * number of features) in test data = (665, 53964)
 (number of data points * number of features) in cross validation data = (532, 53964)

In [102]:

```

print(" Response encoding features .:")
print("(number of data points * number of features) in train data = ", train_x_responseCoding.shape)
print("(number of data points * number of features) in test data = ", test_x_responseCoding.shape)
print("(number of data points * number of features) in cross validation data = ", cv_x_responseCoding.shape)

```

Response encoding features :

(number of data points * number of features) in train data = (2124, 27)
 (number of data points * number of features) in test data = (665, 27)
 (number of data points * number of features) in cross validation data = (532, 27)

4.1. Base Line Model

4.1.1. Naive Bayes

4.1.1.1. Hyper parameter tuning

In [103]:

```

# find more about Multinomial Naive base function here http://scikit-learn.org/stable/modules/generated/sklearn.naive_bayes.Multino
mialNB.html
# -----
# default paramters
# sklearn.naive_bayes.MultinomialNB(alpha=1.0, fit_prior=True, class_prior=None)

# some of methods of MultinomialNB()
# fit(X, y[, sample_weight]) Fit Naive Bayes classifier according to X, y
# predict(X) Perform classification on an array of test vectors X.
# predict_log_proba(X) Return log-probability estimates for the test vector X.
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/naive-bayes-algorithm-1/
# -----


# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifi
erCV.html
# -----
# default paramters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
# 
# some of the methods of CalibratedClassifierCV()

```

```

# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/naive-bayes-algorithm-1/
# -----


alpha = [0.00001, 0.0001, 0.001, 0.1, 1, 10, 100, 1000]
cv_log_error_array = []
for i in alpha:
    print("for alpha =", i)
    clf = MultinomialNB(alpha=i)
    clf.fit(train_x_onehotCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_onehotCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
    # to avoid rounding error while multiplying probabilités we use log-probability estimates
    print("Log Loss :", log_loss(cv_y, sig_clf_probs))

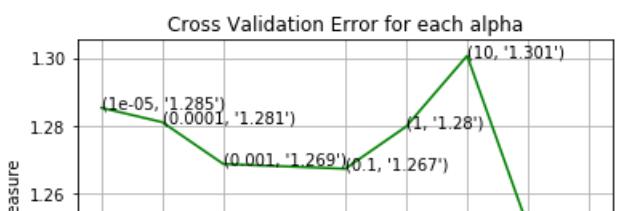
fig, ax = plt.subplots()
ax.plot(np.log10(alpha), cv_log_error_array, c='g')
for i, txt in enumerate(np.round(cv_log_error_array, 3)):
    ax.annotate((alpha[i], str(txt)), (np.log10(alpha[i]), cv_log_error_array[i]))
plt.grid()
plt.xticks(np.log10(alpha))
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

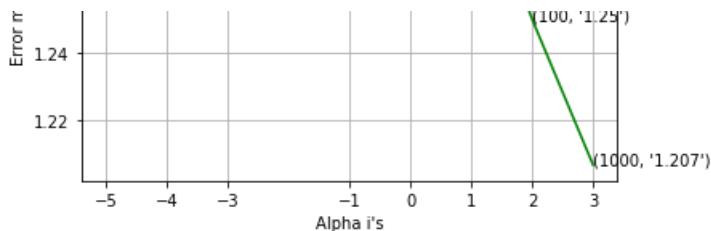
best_alpha = np.argmin(cv_log_error_array)
clf = MultinomialNB(alpha=alpha[best_alpha])
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:", log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:", log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:", log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))
)

```

for alpha = 1e-05
Log Loss : 1.2852373812671365
for alpha = 0.0001
Log Loss : 1.2809818443908294
for alpha = 0.001
Log Loss : 1.2686228295214323
for alpha = 0.1
Log Loss : 1.2672135709406316
for alpha = 1
Log Loss : 1.2797031590893921
for alpha = 10
Log Loss : 1.3006361164669702
for alpha = 100
Log Loss : 1.2499011663474564
for alpha = 1000
Log Loss : 1.2068437462185602





For values of best alpha = 1000 The train log loss is: 0.928151911707999
 For values of best alpha = 1000 The cross validation log loss is: 1.2068437462185602
 For values of best alpha = 1000 The test log loss is: 1.2331629696897815

4.1.1.2. Testing the model with best hyper parameters

In [104]:

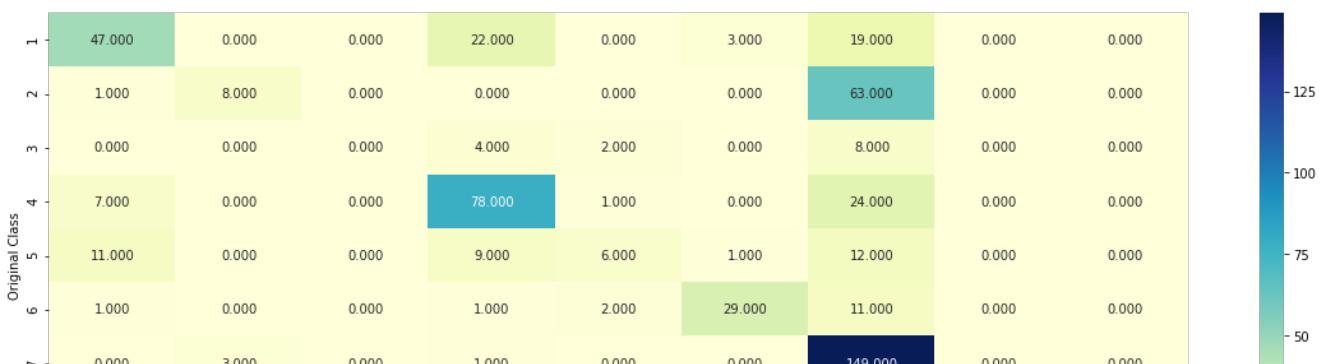
```
# find more about Multinomial Naive base function here http://scikit-learn.org/stable/modules/generated/sklearn.naive\_bayes.MultinomialNB.html
# -----
# default paramters
# sklearn.naive_bayes.MultinomialNB(alpha=1.0, fit_prior=True, class_prior=None)

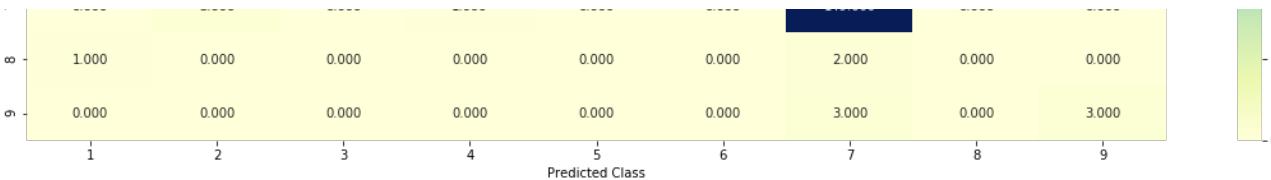
# some of methods of MultinomialNB()
# fit(X, y[, sample_weight]) Fit Naive Bayes classifier according to X, y
# predict(X) Perform classification on an array of test vectors X.
# predict_log_proba(X) Return log-probability estimates for the test vector X.
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/naive-bayes-algorithm-1/
# -----


# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default paramters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
# 
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
# -----

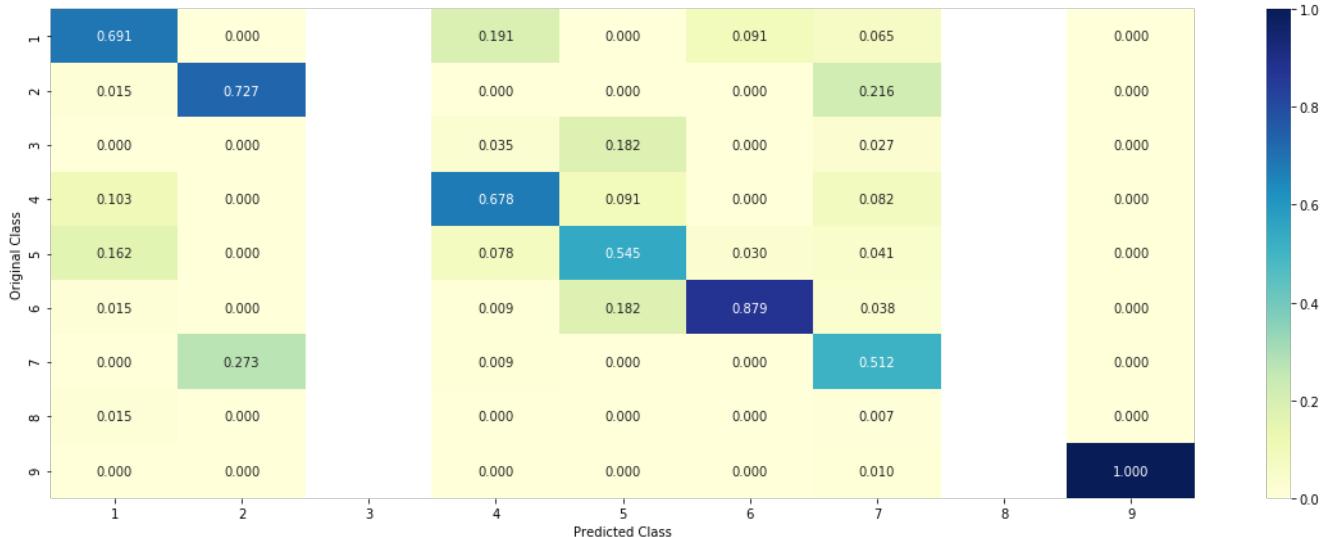

clf = MultinomialNB(alpha=alpha[best_alpha])
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)
sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
# to avoid rounding error while multiplying probabilitites we use log-probability estimates
print("Log Loss :",log_loss(cv_y, sig_clf_probs))
print("Number of missclassified point :", np.count_nonzero((sig_clf.predict(cv_x_onehotCoding)- cv_y))/cv_y.shape[0])
plot_confusion_matrix(cv_y, sig_clf.predict(cv_x_onehotCoding.toarray()))
```

Log Loss : 1.2068437462185602
 Number of missclassified point : 0.39849624060150374
 ----- Confusion matrix -----

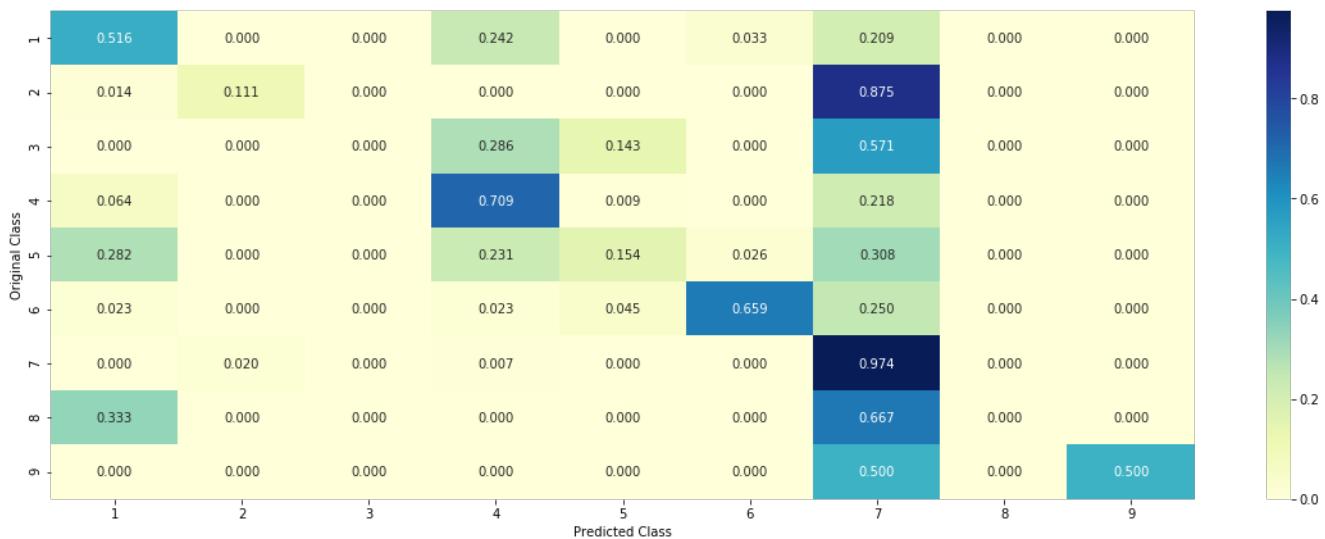




----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



4.1.1.3. Feature Importance, Correctly classified point

In [105]:

```
test_point_index = 1
no_feature = 100
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:", np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.coef_)[predicted_cls-1][:,:no_feature]
print("-"*50)
get_imfeature_names(indices[0], test_df['TEXT'].iloc[test_point_index],test_df['Gene'].iloc[test_point_index],test_df['Variation'].iloc[test_point_index], no_feature)
```

Predicted Class : 7

Predicted Class Probabilities: [[1.010e-02 6.990e-02 3.800e-03 1.780e-02 2.130e-02 1.310e-02 8.613e-01
2.100e-03 5.000e-04]]

Actual Class : 7

21 Text feature [incubated] present in test data point [True]
84 Text feature [abl] present in test data point [True]
92 Text feature [sulfophenyl] present in test data point [True]
Out of the top 100 features 3 are present in query point

4.1.1.4. Feature Importance, Incorrectly classified point

In [106]:

```
test_point_index = 100
no_feature = 100
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:", np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.coef_)[predicted_cls-1][:,:no_feature]
print("-"*50)
get_imptfeature_names(indices[0], test_df['TEXT'].iloc[test_point_index],test_df['Gene'].iloc[test_point_index],test_df['Variation'].iloc[test_point_index], no_feature)
```

Predicted Class : 7
Predicted Class Probabilities: [[2.670e-02 1.316e-01 4.500e-03 5.220e-02 2.780e-02 1.998e-01 5.545e-01
2.300e-03 5.000e-04]]
Actual Class : 6

21 Text feature [incubated] present in test data point [True]
48 Text feature [participate] present in test data point [True]
84 Text feature [abl] present in test data point [True]
Out of the top 100 features 3 are present in query point

4.2. K Nearest Neighbour Classification

4.2.1. Hyper parameter tuning

In [107]:

```
# find more about KNeighborsClassifier() here http://scikit-learn.org/stable/modules/generated/sklearn.neighbors.KNeighborsClassifier.html
# -----
# default parameter
# KNeighborsClassifier(n_neighbors=5, weights='uniform', algorithm='auto', leaf_size=30, p=2,
# metric='minkowski', metric_params=None, n_jobs=1, **kwargs)

# methods of
# fit(X, y) : Fit the model using X as training data and y as target values
# predict(X):Predict the class labels for the provided data
# predict_proba(X):Return probability estimates for the test data X.
#-----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/k-nearest-neighbors-geometric-intuition-with-a-toy-example-1/
#-----

# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default paramters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
#-----
# video link:
#-----
```

```

alpha = [5, 11, 15, 21, 31, 41, 51, 99]
cv_log_error_array = []
for i in alpha:
    print("for alpha =", i)
    clf = KNeighborsClassifier(n_neighbors=i)
    clf.fit(train_x_responseCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_responseCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_responseCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
    # to avoid rounding error while multiplying probabilities we use log-probability estimates
    print("Log Loss :",log_loss(cv_y, sig_clf_probs))

```

```

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[i],str(txt)), (alpha[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

```

```

best_alpha = np.argmin(cv_log_error_array)
clf = KNeighborsClassifier(n_neighbors=alpha[best_alpha])
clf.fit(train_x_responseCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_responseCoding, train_y)

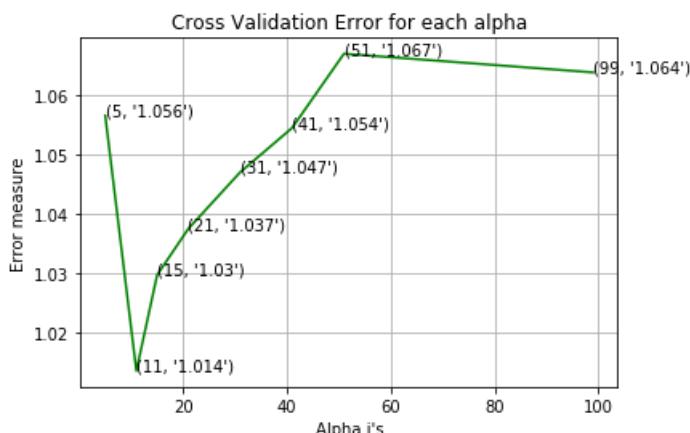
predict_y = sig_clf.predict_proba(train_x_responseCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:",log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_responseCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:",log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_responseCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:",log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))
)

```

```

for alpha = 5
Log Loss : 1.0564830505771439
for alpha = 11
Log Loss : 1.0135435510918993
for alpha = 15
Log Loss : 1.0296672314377557
for alpha = 21
Log Loss : 1.0374321505864585
for alpha = 31
Log Loss : 1.0469460531465717
for alpha = 41
Log Loss : 1.054393694523096
for alpha = 51
Log Loss : 1.0668795081589435
for alpha = 99
Log Loss : 1.0637397287369244

```



For values of best alpha = 11 The train log loss is: 0.6326988587879356
 For values of best alpha = 11 The cross validation log loss is: 1.0135435510918993
 For values of best alpha = 11 The test log loss is: 1.0616553263325705

4.2.2. Testing the model with best hyper parameters

In [108]:

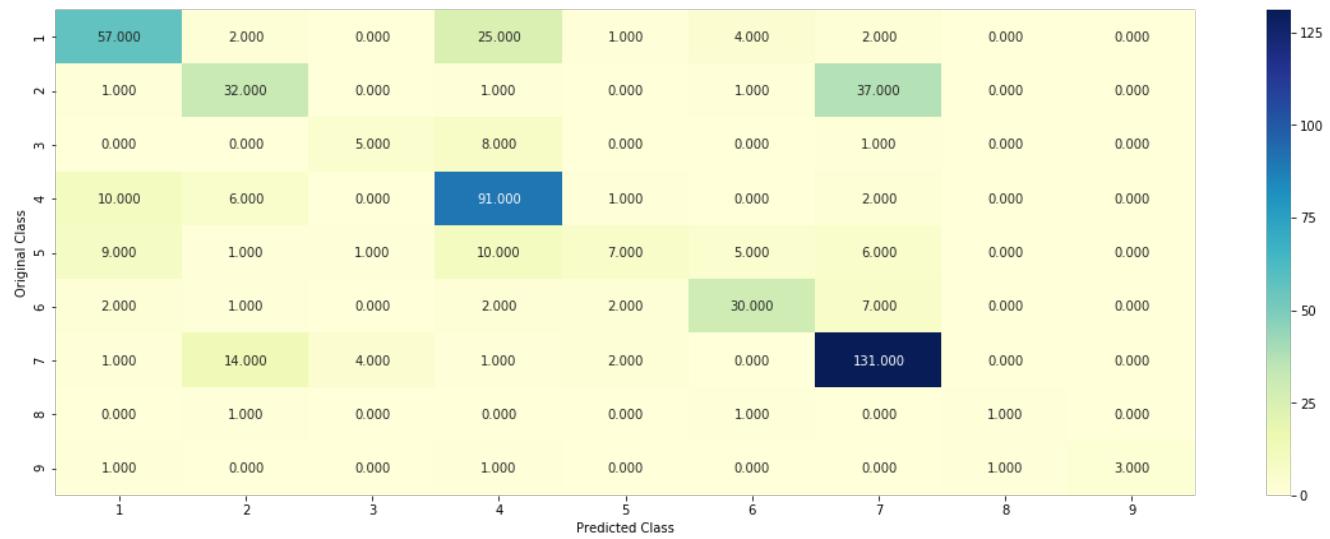
```
# find more about KNeighborsClassifier() here http://scikit-learn.org/stable/modules/generated/sklearn.neighbors.KNeighborsClassifie
r.html
# -----
# default parameter
# KNeighborsClassifier(n_neighbors=5, weights='uniform', algorithm='auto', leaf_size=30, p=2,
# metric='minkowski', metric_params=None, n_jobs=1, **kwargs)

# methods of
# fit(X, y) : Fit the model using X as training data and y as target values
# predict(X):Predict the class labels for the provided data
# predict_proba(X):Return probability estimates for the test data X.
#-----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/k-nearest-neighbors-geometric-intuition-with-a
-toy-example-1/
#
clf = KNeighborsClassifier(n_neighbors=alpha[best_alpha])
predict_and_plot_confusion_matrix(train_x_responseCoding, train_y, cv_x_responseCoding, cv_y, clf)
```

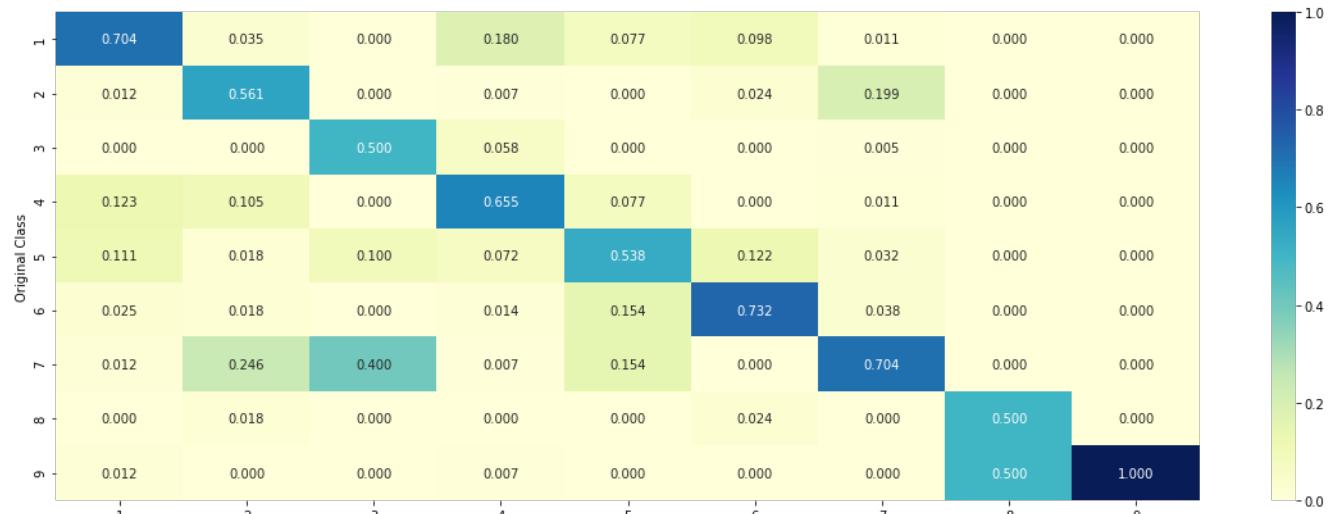
Log loss : 1.0135435510918993

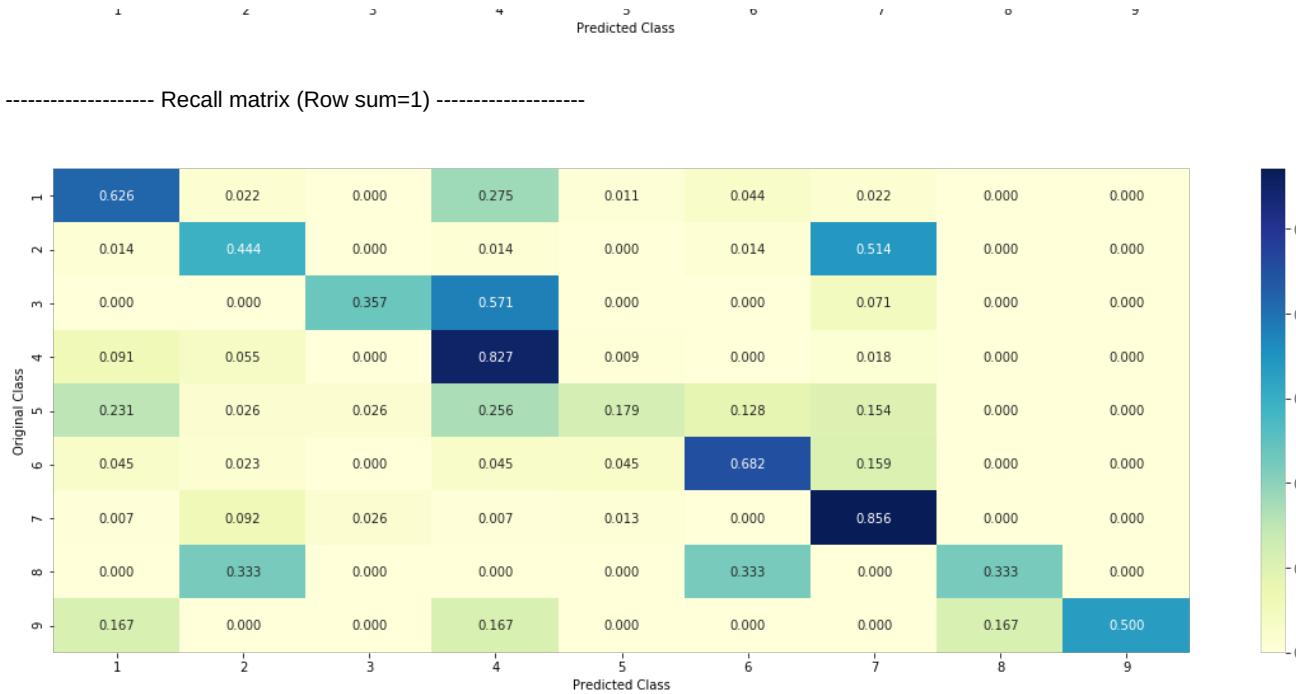
Number of mis-classified points : 0.32894736842105265

----- Confusion matrix -----



----- Precision matrix (Column Sum=1) -----





4.2.3. Sample Query point -1

In [109]:

```
clf = KNeighborsClassifier(n_neighbors=alpha[best_alpha])
clf.fit(train_x_responseCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_responseCoding, train_y)

test_point_index = 1
predicted_cls = sig_clf.predict(test_x_responseCoding[0].reshape(1,-1))
print("Predicted Class :", predicted_cls[0])
print("Actual Class :", test_y[test_point_index])
neighbors = clf.kneighbors(test_x_responseCoding[test_point_index].reshape(1, -1), alpha[best_alpha])
print("The ",alpha[best_alpha]," nearest neighbours of the test points belongs to classes",train_y[neighbors[1][0]])
print("Frequency of nearest points :",Counter(train_y[neighbors[1][0]]))
```

Predicted Class : 4

Actual Class : 7

The 11 nearest neighbours of the test points belongs to classes [7 7 7 7 2 7 7 7 7 7 7]

Frequency of nearest points : Counter({7: 10, 2: 1})

4.2.4. Sample Query Point-2

In [110]:

```
clf = KNeighborsClassifier(n_neighbors=alpha[best_alpha])
clf.fit(train_x_responseCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_responseCoding, train_y)

test_point_index = 100

predicted_cls = sig_clf.predict(test_x_responseCoding[test_point_index].reshape(1,-1))
print("Predicted Class :", predicted_cls[0])
print("Actual Class :", test_y[test_point_index])
neighbors = clf.kneighbors(test_x_responseCoding[test_point_index].reshape(1, -1), alpha[best_alpha])
print("the k value for knn is",alpha[best_alpha],"and the nearest neighbours of the test points belongs to classes",train_y[neighbors[1][0]])
print("Frequency of nearest points :",Counter(train_y[neighbors[1][0]]))
```

Predicted Class : 6

Actual Class : 6

The k value for knn is 11 and the nearest neighbours of the test points belongs to classes [2 6 6 6 6 6 6 2 7 7]

Frequency of nearest points : Counter({6: 7, 2: 2, 7: 21})

```
frequency of nearest points : Counter({0: 1, 1: 2, 2: 1, 3: 2})
```

4.3. Logistic Regression

4.3.1. With Class balancing

4.3.1.1. Hyper parameter tuning

In [111]:

```
# read more about SGDClassifier() at http://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

#-----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/geometric-intuition-1/
#-----


# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default paramters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
#-----
# video link:
#-----


alpha = [10 ** x for x in range(-6, 3)]
cv_log_error_array = []
for i in alpha:
    print("for alpha =", i)
    clf = SGDClassifier(class_weight='balanced', alpha=i, penalty='l2', loss='log', random_state=42)
    clf.fit(train_x_onehotCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_onehotCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
    # to avoid rounding error while multiplying probabilités we use log-probability estimates
    print("Log Loss :", log_loss(cv_y, sig_clf_probs))

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array, c='g')
for i, txt in enumerate(np.round(cv_log_error_array, 3)):
    ax.annotate((alpha[i], str(txt)), (alpha[i], cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

best_alpha = np.argmin(cv_log_error_array)
clf = SGDClassifier(class_weight='balanced', alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print("For values of best_alpha = ", best_alpha, "The train loss loss is", log_loss(train_y, predict_y))
```

```

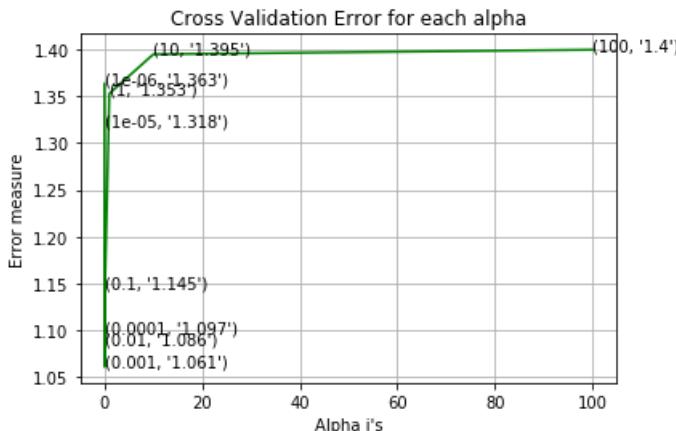
print('For values of best alpha = ', alpha[best_alpha], 'The train log loss is:', log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:", log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:", log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))
)

```

```

for alpha = 1e-06
Log Loss : 1.3632622485479062
for alpha = 1e-05
Log Loss : 1.3183124222403322
for alpha = 0.0001
Log Loss : 1.0970526385882509
for alpha = 0.001
Log Loss : 1.0610848225827585
for alpha = 0.01
Log Loss : 1.0857233158412243
for alpha = 0.1
Log Loss : 1.1448646947061627
for alpha = 1
Log Loss : 1.352726926441421
for alpha = 10
Log Loss : 1.3946499270529458
for alpha = 100
Log Loss : 1.3995214855939324

```



For values of best alpha = 0.001 The train log loss is: 0.5462453526468775
 For values of best alpha = 0.001 The cross validation log loss is: 1.0610848225827585
 For values of best alpha = 0.001 The test log loss is: 1.0713674509891766

4.3.1.2. Testing the model with best hyper parameters

In [112]:

```

# read more about SGDClassifier() at http://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

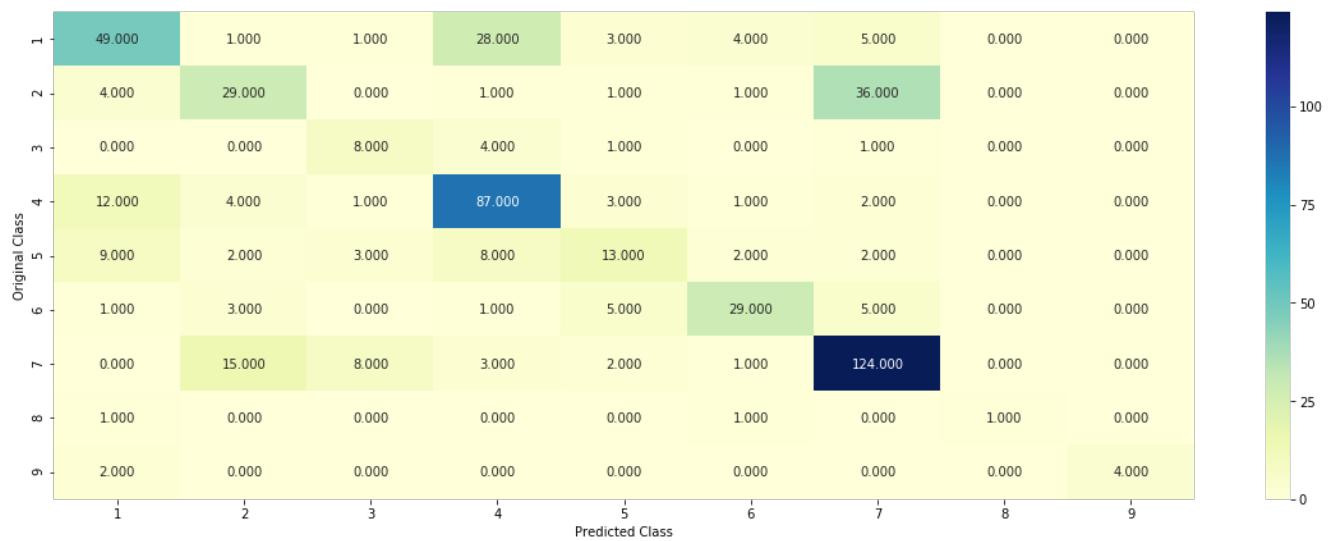
# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

#-----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/geometric-intuition-1/
#-----
clf = SGDClassifier(class_weight='balanced', alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
predict_and_plot_confusion_matrix(train_x_onehotCoding, train_y, cv_x_onehotCoding, cv_y, clf)

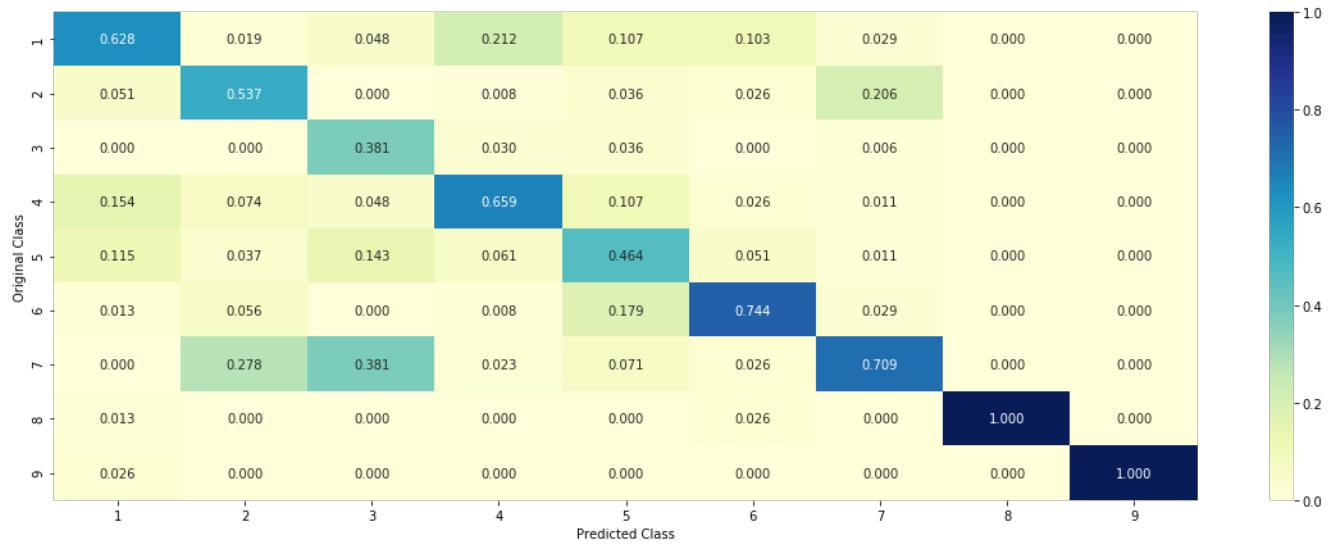
```

Log loss : 1.0610848225827585
 Number of mis-classified points : 0.3533834586466165

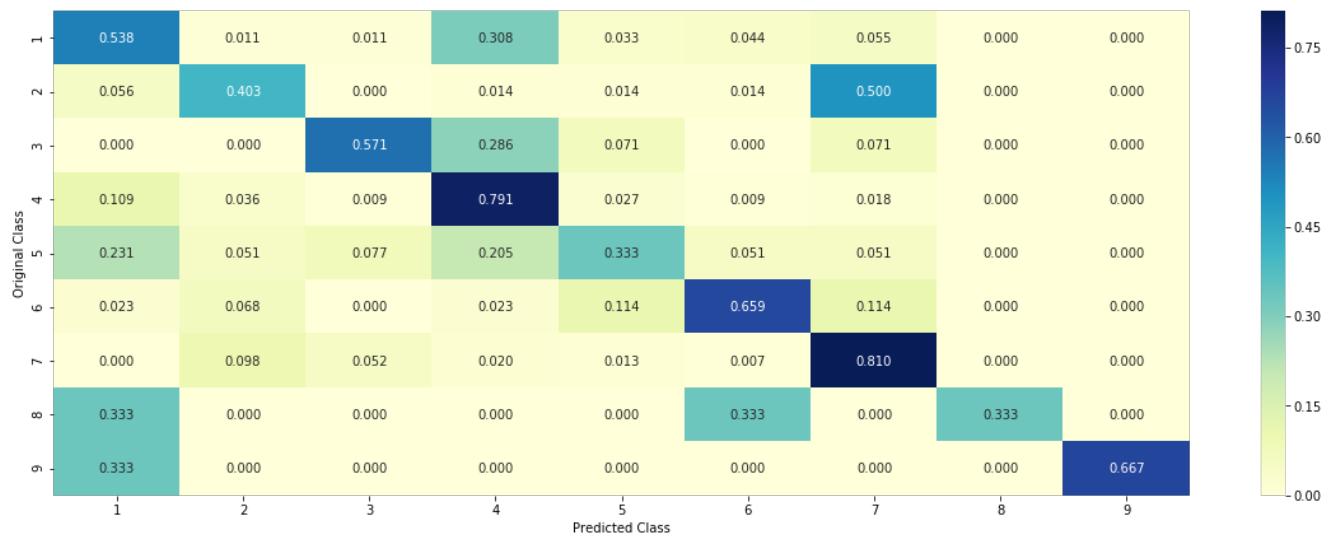
----- Confusion matrix -----



----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



4.3.1.3. Feature Importance

In [10]:

```
def get_imp_feature_names(text, indices, removed_ind = []):
    word_present = 0
    tabulte_list = []
    incresingorder_ind = 0
    for i in indices:
        if i < train_gene_feature_onehotCoding.shape[1]:
            tabulte_list.append([incresingorder_ind, "Gene", "Yes"])
        elif i < 18:
            tabulte_list.append([incresingorder_ind, "Variation", "Yes"])
        if ((i > 17) & (i not in removed_ind)):
            word = train_text_features[i]
            yes_no = True if word in text.split() else False
            if yes_no:
                word_present += 1
            tabulte_list.append([incresingorder_ind, train_text_features[i], yes_no])
        incresingorder_ind += 1
    print(word_present, "most important features are present in our query point")
    print("-"*50)
    print("The features that are most important of the ", predicted_cls[0], " class:")
    print(tabulate(tabulte_list, headers=["Index", 'Feature name', 'Present or Not']))
```

4.3.1.3.1. Correctly Classified point

In [114]:

```
# from tabulate import tabulate
clf = SGDClassifier(class_weight='balanced', alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_x_onehotCoding, train_y)
test_point_index = 1
no_feature = 500
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:", np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.coef_[predicted_cls-1][:,:no_feature])
print("-"*50)
get_imfeature_names(indices[0], test_df['TEXT'].iloc[test_point_index], test_df['Gene'].iloc[test_point_index], test_df['Variation'].iloc[test_point_index], no_feature)
```

Predicted Class : 7

Predicted Class Probabilities: [[0.0053 0.062 0.0036 0.0047 0.009 0.0038 0.9078 0.0025 0.0014]]

Actual Class : 7

50 Text feature [myeloproliferative] present in test data point [True]
137 Text feature [common] present in test data point [True]
245 Text feature [harbor] present in test data point [True]
261 Text feature [date] present in test data point [True]
296 Text feature [dermatofibrosarcoma] present in test data point [True]
304 Text feature [oncology] present in test data point [True]
306 Text feature [search] present in test data point [True]
368 Text feature [sensitive] present in test data point [True]
414 Text feature [receptor] present in test data point [True]
423 Text feature [allowing] present in test data point [True]
Out of the top 500 features 10 are present in query point

4.3.1.3.2. Incorrectly Classified point

In [115]:

```
test_point_index = 100
no_feature = 500
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:", np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.coef_[predicted_cls-1][:,:no_feature])
print("-"*50)
get_imfeature_names(indices[0], test_df['TEXT'].iloc[test_point_index], test_df['Gene'].iloc[test_point_index], test_df['Variation'].iloc[test_point_index], no_feature)
```

```
Predicted Class : 6
Predicted Class Probabilities: [[0.004 0.1017 0.0029 0.0046 0.0092 0.8565 0.0175 0.0023 0.0012]]
Actual Class : 6
```

```
-----
121 Text feature [available] present in test data point [True]
136 Text feature [inc] present in test data point [True]
215 Text feature [university] present in test data point [True]
238 Text feature [medium] present in test data point [True]
259 Text feature [least] present in test data point [True]
277 Text feature [45] present in test data point [True]
279 Text feature [relatively] present in test data point [True]
397 Text feature [immunoblot] present in test data point [True]
413 Text feature [bio] present in test data point [True]
423 Text feature [driving] present in test data point [True]
497 Text feature [associated] present in test data point [True]
Out of the top 500 features 11 are present in query point
```

4.3.2. Without Class balancing

4.3.2.1. Hyper parameter tuning

In [116]:

```
# read more about SGDClassifier() at http://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

#-----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/geometric-intuition-1/
#-----
```



```
# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default parameters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
#-----
# video link:
#-----
```



```
alpha = [10 ** x for x in range(-6, 1)]
cv_log_error_array = []
for i in alpha:
    print("for alpha =", i)
    clf = SGDClassifier(alpha=i, penalty='l2', loss='log', random_state=42)
    clf.fit(train_x_onehotCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_onehotCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
    print("Log Loss :", log_loss(cv_y, sig_clf_probs))

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array, c='g')
for i, txt in enumerate(np.round(cv_log_error_array, 3)):
    ax.annotate((alpha[i], str(txt)), (alpha[i], cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
```

```

plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

best_alpha = np.argmin(cv_log_error_array)
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

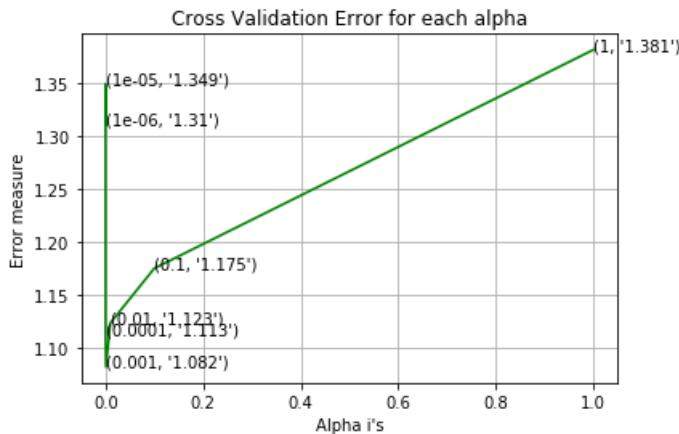
predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:", log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:", log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:", log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))
)

```

```

for alpha = 1e-06
Log Loss : 1.3101085025286126
for alpha = 1e-05
Log Loss : 1.3488930783206934
for alpha = 0.0001
Log Loss : 1.11256836633389
for alpha = 0.001
Log Loss : 1.0816286576955154
for alpha = 0.01
Log Loss : 1.1230384172370729
for alpha = 0.1
Log Loss : 1.1746372899648534
for alpha = 1
Log Loss : 1.3811694379200217

```



```

For values of best alpha = 0.001 The train log loss is: 0.5438274196854321
For values of best alpha = 0.001 The cross validation log loss is: 1.0816286576955154
For values of best alpha = 0.001 The test log loss is: 1.0803872569135942

```

4.3.2.2. Testing model with best hyper parameters

In [117]:

```

# read more about SGDClassifier() at http://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

#-----

```

```
# video link:
```

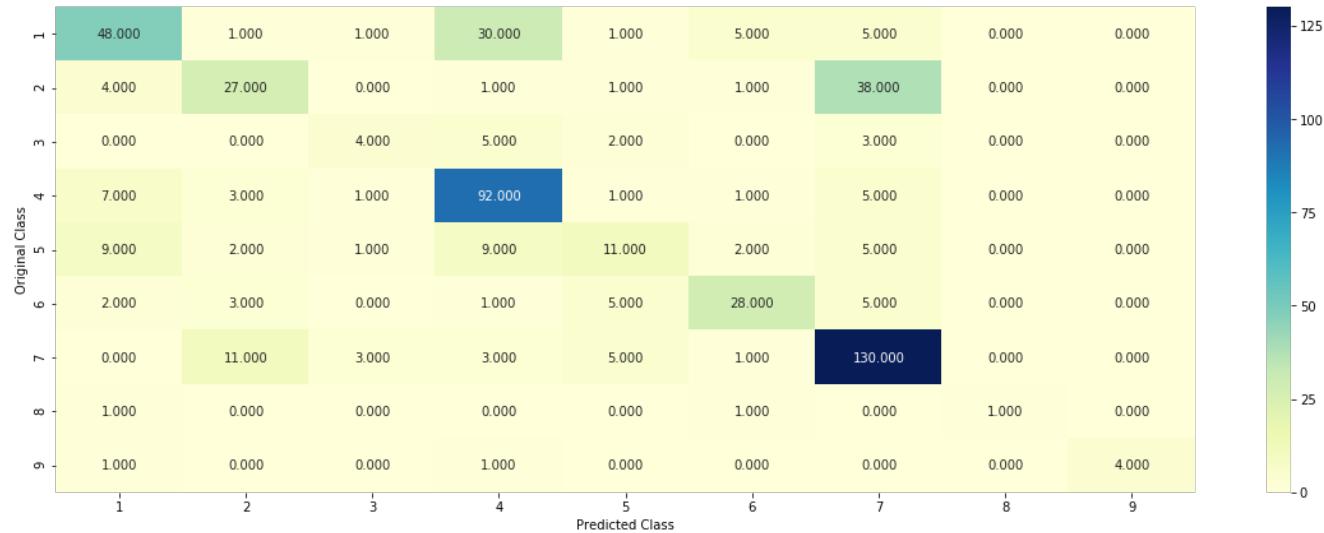
```
#-----
```

```
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
predict_and_plot_confusion_matrix(train_x_onehotCoding, train_y, cv_x_onehotCoding, cv_y, clf)
```

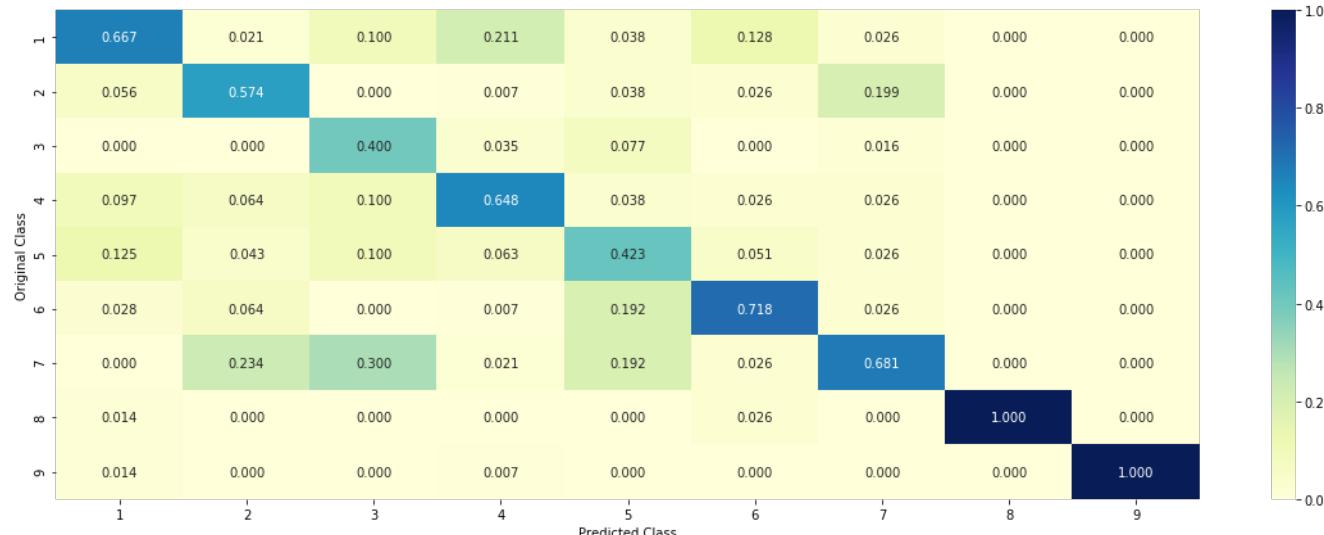
Log loss : 1.0816286576955154

Number of mis-classified points : 0.35150375939849626

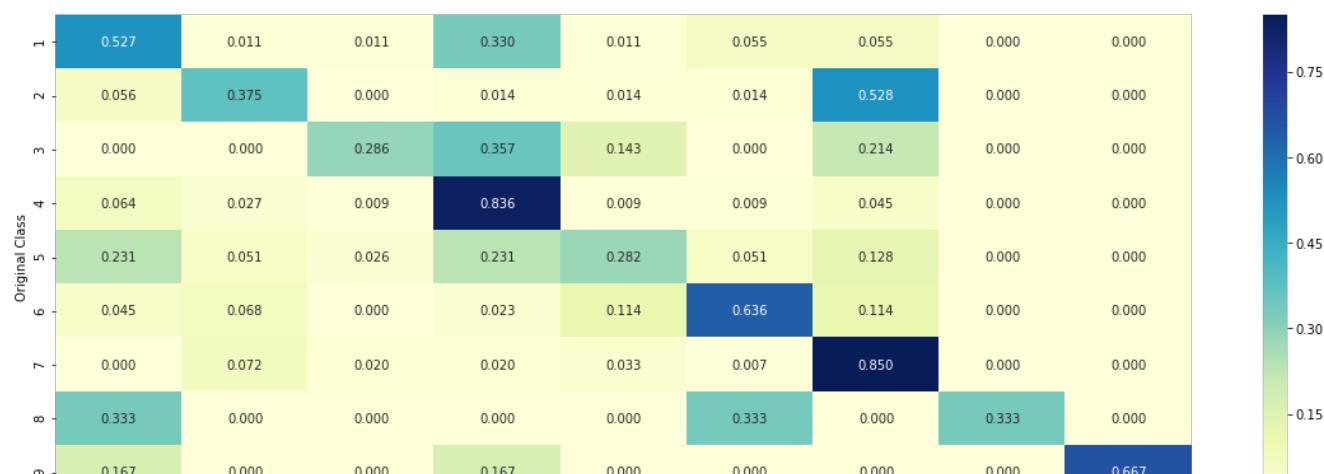
----- Confusion matrix -----

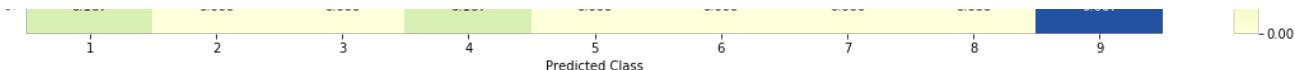


----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----





4.3.2.3. Feature Importance, Correctly Classified point

In [118]:

```
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_x_onehotCoding, train_y)
test_point_index = 1
no_feature = 500
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:", np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.coef_[predicted_cls-1][:,:no_feature])
print("-"*50)
get_imfeature_names(indices[0], test_df['TEXT'].iloc[test_point_index], test_df['Gene'].iloc[test_point_index], test_df['Variation'].iloc[test_point_index], no_feature)
```

Predicted Class : 7
Predicted Class Probabilities: [[5.900e-03 6.610e-02 2.500e-03 5.200e-03 7.900e-03 3.500e-03 9.074e-01
1.100e-03 4.000e-04]]
Actual Class : 7

68 Text feature [myeloproliferative] present in test data point [True]
165 Text feature [common] present in test data point [True]
225 Text feature [harbor] present in test data point [True]
273 Text feature [sensitive] present in test data point [True]
379 Text feature [search] present in test data point [True]
388 Text feature [oncology] present in test data point [True]
395 Text feature [date] present in test data point [True]
429 Text feature [allowing] present in test data point [True]
Out of the top 500 features 8 are present in query point

4.3.2.4. Feature Importance, Incorrectly Classified point

In [119]:

```
test_point_index = 100
no_feature = 500
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:", np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.coef_[predicted_cls-1][:,:no_feature])
print("-"*50)
get_imfeature_names(indices[0], test_df['TEXT'].iloc[test_point_index], test_df['Gene'].iloc[test_point_index], test_df['Variation'].iloc[test_point_index], no_feature)
```

Predicted Class : 6
Predicted Class Probabilities: [[4.800e-03 1.166e-01 1.900e-03 5.500e-03 8.300e-03 8.347e-01 2.680e-02
9.000e-04 3.000e-04]]
Actual Class : 6

110 Text feature [available] present in test data point [True]
122 Text feature [inc] present in test data point [True]
203 Text feature [university] present in test data point [True]
208 Text feature [medium] present in test data point [True]
236 Text feature [relatively] present in test data point [True]
242 Text feature [45] present in test data point [True]
332 Text feature [bio] present in test data point [True]
384 Text feature [least] present in test data point [True]
410 Text feature [driving] present in test data point [True]
432 Text feature [immunoblot] present in test data point [True]
Out of the top 500 features 10 are present in query point

4.4. Linear Support Vector Machines

4.4.1. Hyper parameter tuning

In [120]:

```
# read more about support vector machines with linear kernels here http://scikit-learn.org/stable/modules/generated/sklearn.svm.SVC.html

# -----
# default parameters
# SVC(C=1.0, kernel='rbf', degree=3, gamma='auto', coef0=0.0, shrinking=True, probability=False, tol=0.001,
# cache_size=200, class_weight=None, verbose=False, max_iter=-1, decision_function_shape='ovr', random_state=None)

# Some of methods of SVM()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/mathematical-derivation-copy-8/
# -----


# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default paramters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
#-----
# video link:
#-----


alpha = [10 ** x for x in range(-5, 3)]
cv_log_error_array = []
for i in alpha:
    print("for C =", i)
    # clf = SVC(C=i,kernel='linear',probability=True, class_weight='balanced')
    clf = SGDClassifier(class_weight='balanced', alpha=i, penalty='l2', loss='hinge', random_state=42)
    clf.fit(train_x_onehotCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_onehotCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
    print("Log Loss :",log_loss(cv_y, sig_clf_probs))

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[i],str(txt)), (alpha[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

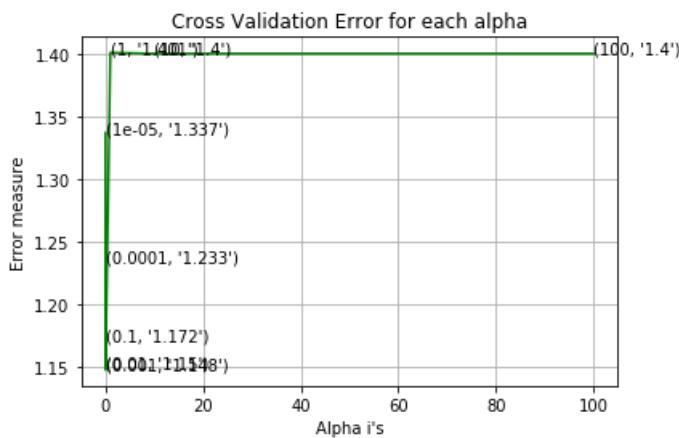
best_alpha = np.argmin(cv_log_error_array)
# clf = SVC(C=i,kernel='linear',probability=True, class_weight='balanced')
clf = SGDClassifier(class_weight='balanced', alpha=alpha[best_alpha], penalty='l2', loss='hinge', random_state=42)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:",log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-5))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:",log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:",log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))
```

```

for C = 1e-05
Log Loss : 1.3371072246674516
for C = 0.0001
Log Loss : 1.2333511585457833
for C = 0.001
Log Loss : 1.1477641158378742
for C = 0.01
Log Loss : 1.1495455179163117
for C = 0.1
Log Loss : 1.1715735538529386
for C = 1
Log Loss : 1.4011448289654294
for C = 10
Log Loss : 1.400430177156302
for C = 100
Log Loss : 1.4004298247844287

```



For values of best alpha = 0.001 The train log loss is: 0.6763846537210949
 For values of best alpha = 0.001 The cross validation log loss is: 1.1477641158378742
 For values of best alpha = 0.001 The test log loss is: 1.1517597886417084

4.4.2. Testing model with best hyper parameters

In [121]:

```

# read more about support vector machines with linear kernels here http://scikit-learn.org/stable/modules/generated/sklearn.svm.SVC
.html

#
# default parameters
# SVC(C=1.0, kernel='rbf', degree=3, gamma='auto', coef0=0.0, shrinking=True, probability=False, tol=0.001,
# cache_size=200, class_weight=None, verbose=False, max_iter=-1, decision_function_shape='ovr', random_state=None)

# Some of methods of SVM()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
#
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/mathematical-derivation-copy-8/
# -----


# clf = SVC(C=alpha[best_alpha],kernel='linear',probability=True, class_weight='balanced')
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='hinge', random_state=42, class_weight='balanced')
predict_and_plot_confusion_matrix(train_x_onehotCoding, train_y, cv_x_onehotCoding, cv_y, clf)

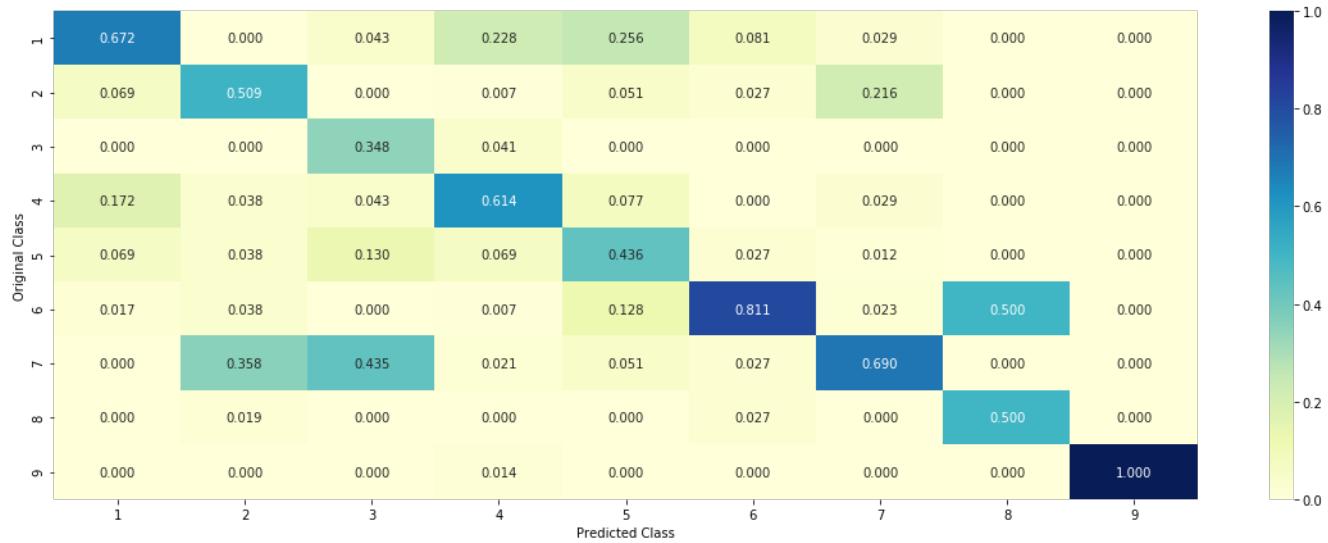
```

Log loss : 1.1477641158378742
 Number of mis-classified points : 0.37406015037593987
 ----- Confusion matrix -----

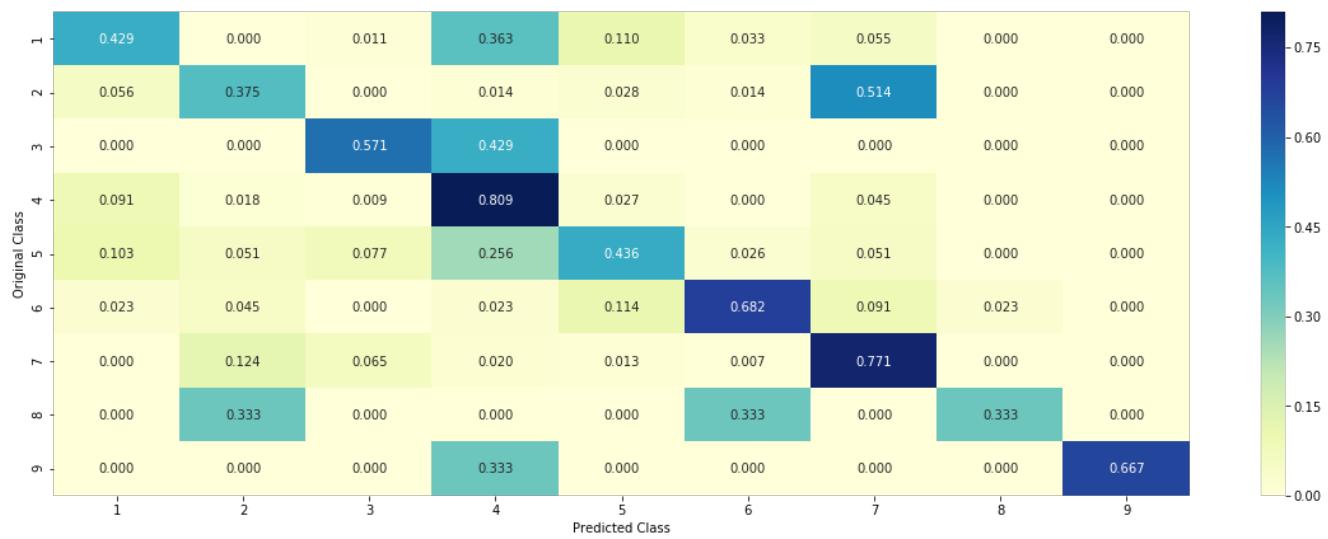
39.000	0.000	1.000	33.000	10.000	3.000	5.000	0.000	0.000
--------	-------	-------	--------	--------	-------	-------	-------	-------



----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



4.3.3. Feature Importance

4.3.3.1. For Correctly classified point

In [122]:

```
clf = SGDClassifier(alpha=alpha/best_alpha, penalty='l2', loss='hinge', random_state=42)
```

```

clf = SGDClassifier(alpha=alpha[3], C=C[3], penalty="l2", loss="log", random_state=42)
clf.fit(train_x_onehotCoding,train_y)
test_point_index = 1
# test_point_index = 100
no_feature = 500
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:", np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.coef_)[predicted_cls-1][:,:no_feature]
print("-"*50)
get_imfeature_names(indices[0], test_df['TEXT'].iloc[test_point_index],test_df['Gene'].iloc[test_point_index],test_df['Variation'].iloc[test_point_index], no_feature)

```

Predicted Class : 7
Predicted Class Probabilities: [[0.0316 0.0489 0.0074 0.0348 0.0343 0.0108 0.8201 0.0044 0.0077]]
Actual Class : 7

87 Text feature [detectable] present in test data point [True]
223 Text feature [myeloproliferative] present in test data point [True]
252 Text feature [sensitive] present in test data point [True]
294 Text feature [common] present in test data point [True]
338 Text feature [established] present in test data point [True]
371 Text feature [del] present in test data point [True]
388 Text feature [receptor] present in test data point [True]
450 Text feature [harbor] present in test data point [True]
489 Text feature [10] present in test data point [True]
Out of the top 500 features 9 are present in query point

4.3.3.2. For Incorrectly classified point

In [123]:

```
test_point_index = 100
no_feature = 500
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:", np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.coef_)[predicted_cls-1][:,:no_feature]
print("-"*50)
get_imptfeature_names(indices[0], test_df['TEXT'].iloc[test_point_index],test_df['Gene'].iloc[test_point_index],test_df['Variation'].iloc[test_point_index], no_feature)
```

Predicted Class : 6
Predicted Class Probabilities: [[0.0365 0.0319 0.0089 0.0324 0.0321 0.7852 0.0646 0.0029 0.0054]]
Actual Class : 6

55 Text feature [least] present in test data point [True]
192 Text feature [available] present in test data point [True]
219 Text feature [six] present in test data point [True]
256 Text feature [inc] present in test data point [True]
271 Text feature [associated] present in test data point [True]
319 Text feature [bridge] present in test data point [True]
325 Text feature [relatively] present in test data point [True]
335 Text feature [immunoblot] present in test data point [True]
378 Text feature [independent] present in test data point [True]
402 Text feature [university] present in test data point [True]
Out of the top 500 features 10 are present in query point

4.5 Random Forest Classifier

4.5.1. Hyper parameter tuning (With One hot Encoding)

In [124]:

```
# -----  
# default parameters  
# sklearn.ensemble.RandomForestClassifier(n_estimators=10, criterion='gini', max_depth=None, min_samples_split=2,  
# min samples leaf=1, min weight fraction leaf=0.0, max features='auto', max leaf nodes=None, min impurity decrease=0.0,
```

```

# min_impurity_split=None, bootstrap=True, oob_score=False, n_jobs=1, random_state=None, verbose=0, warm_start=False,
# class_weight=None)

# Some of methods of RandomForestClassifier()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# predict_proba (X) Perform classification on samples in X.

# some of attributes of RandomForestClassifier()
# feature_importances_ : array of shape = [n_features]
# The feature importances (the higher, the more important the feature).

# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/random-forest-and-their-construction-2/
# -----


# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifi
erCV.html
# -----
# default paramters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
#-----
# video link:
#-----


alpha = [100,200,500,1000,2000]
max_depth = [5, 10]
cv_log_error_array = []
for i in alpha:
    for j in max_depth:
        print("for n_estimators =", i,"and max depth = ", j)
        clf = RandomForestClassifier(n_estimators=i, criterion='gini', max_depth=j, random_state=42, n_jobs=-1)
        clf.fit(train_x_onehotCoding, train_y)
        sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
        sig_clf.fit(train_x_onehotCoding, train_y)
        sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
        cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
        print("Log Loss :",log_loss(cv_y, sig_clf_probs))

"fig, ax = plt.subplots()
features = np.dot(np.array(alpha)[:,None],np.array(max_depth)[None]).ravel()
ax.plot(features, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[int(i/2)],max_depth[int(i%2)],str(txt), (features[i],cv_log_error_array[i])))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()
"

best_alpha = np.argmin(cv_log_error_array)
clf = RandomForestClassifier(n_estimators=alpha[int(best_alpha/2)], criterion='gini', max_depth=max_depth[int(best_alpha%2)], random_state=42, n_jobs=-1)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best estimator = ', alpha[int(best_alpha/2)], "The train log loss is:",log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best estimator = ', alpha[int(best_alpha/2)], "The cross validation log loss is:",log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print('For values of best estimator = ', alpha[int(best_alpha/2)], "The test log loss is:",log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))



for n_estimators = 100 and max depth = 5
Log Loss : 1.178626213887211

```

```

LOG LOSS : 1.170020243007241
for n_estimators = 100 and max depth = 10
Log Loss : 1.1180644880486166
for n_estimators = 200 and max depth = 5
Log Loss : 1.1614600773734098
for n_estimators = 200 and max depth = 10
Log Loss : 1.1159218221012774
for n_estimators = 500 and max depth = 5
Log Loss : 1.147120583754688
for n_estimators = 500 and max depth = 10
Log Loss : 1.101504099424983
for n_estimators = 1000 and max depth = 5
Log Loss : 1.1408835932832677
for n_estimators = 1000 and max depth = 10
Log Loss : 1.1002180260227572
for n_estimators = 2000 and max depth = 5
Log Loss : 1.1393611007424826
for n_estimators = 2000 and max depth = 10
Log Loss : 1.0963704284021722
For values of best estimator = 2000 The train log loss is: 0.6670061576656469
For values of best estimator = 2000 The cross validation log loss is: 1.0963704284021722
For values of best estimator = 2000 The test log loss is: 1.1602957290755054

```

4.5.2. Testing model with best hyper parameters (One Hot Encoding)

In [125]:

```

# -----
# default parameters
# sklearn.ensemble.RandomForestClassifier(n_estimators=10, criterion='gini', max_depth=None, min_samples_split=2,
# min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='auto', max_leaf_nodes=None, min_impurity_decrease=0.0,
# min_impurity_split=None, bootstrap=True, oob_score=False, n_jobs=1, random_state=None, verbose=0, warm_start=False,
# class_weight=None)

# Some of methods of RandomForestClassifier()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# predict_proba (X) Perform classification on samples in X.

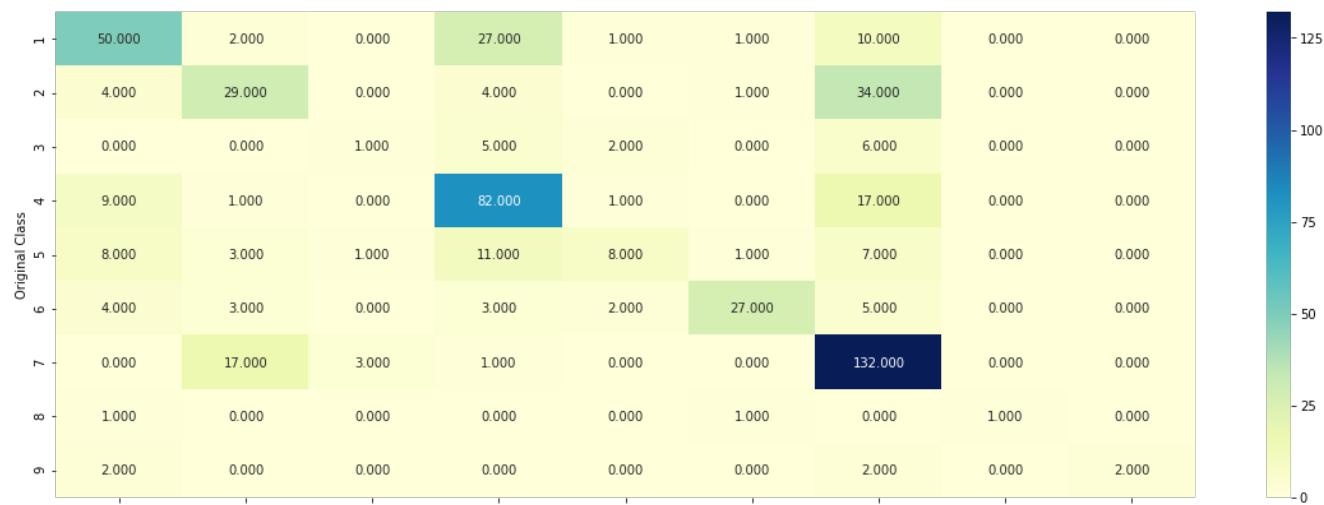
# some of attributes of RandomForestClassifier()
# feature_importances_ : array of shape = [n_features]
# The feature importances (the higher, the more important the feature).

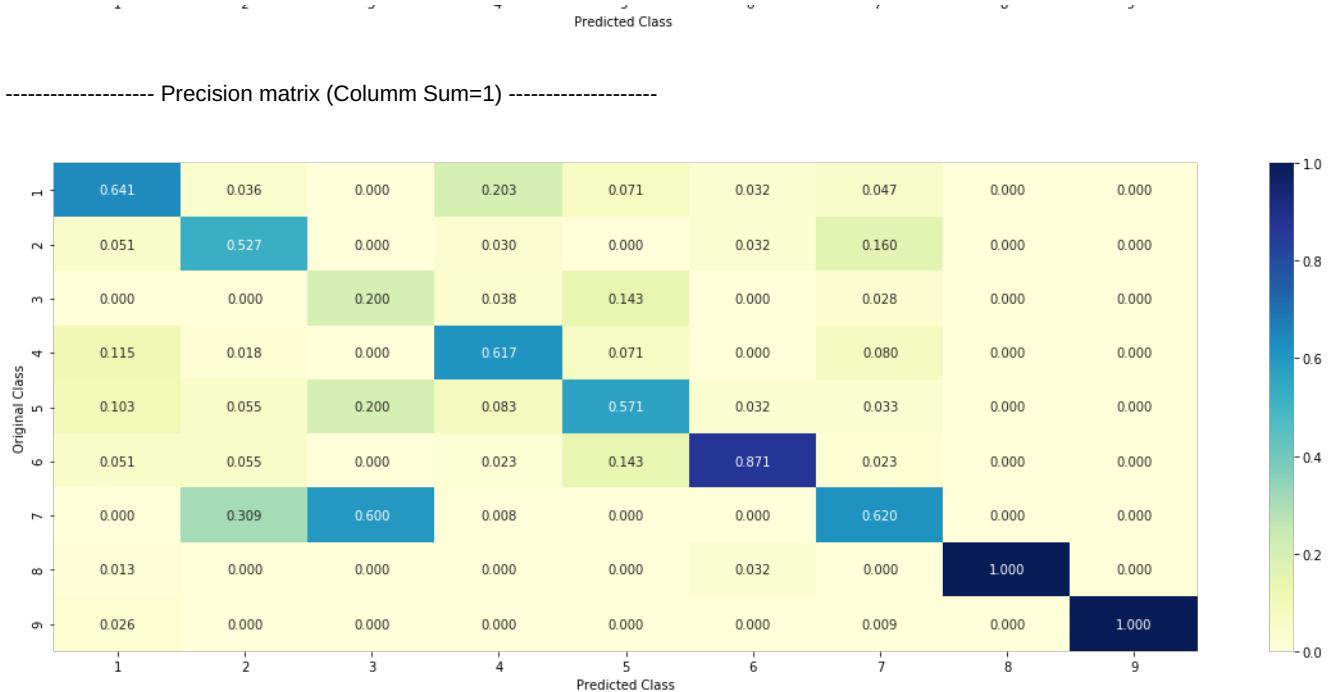
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/random-forest-and-their-construction-2/
# -----


clf = RandomForestClassifier(n_estimators=alpha[int(best_alpha/2)], criterion='gini', max_depth=max_depth[int(best_alpha%2)], random_state=42, n_jobs=-1)
predict_and_plot_confusion_matrix(train_x_onehotCoding, train_y, cv_x_onehotCoding, cv_y, clf)

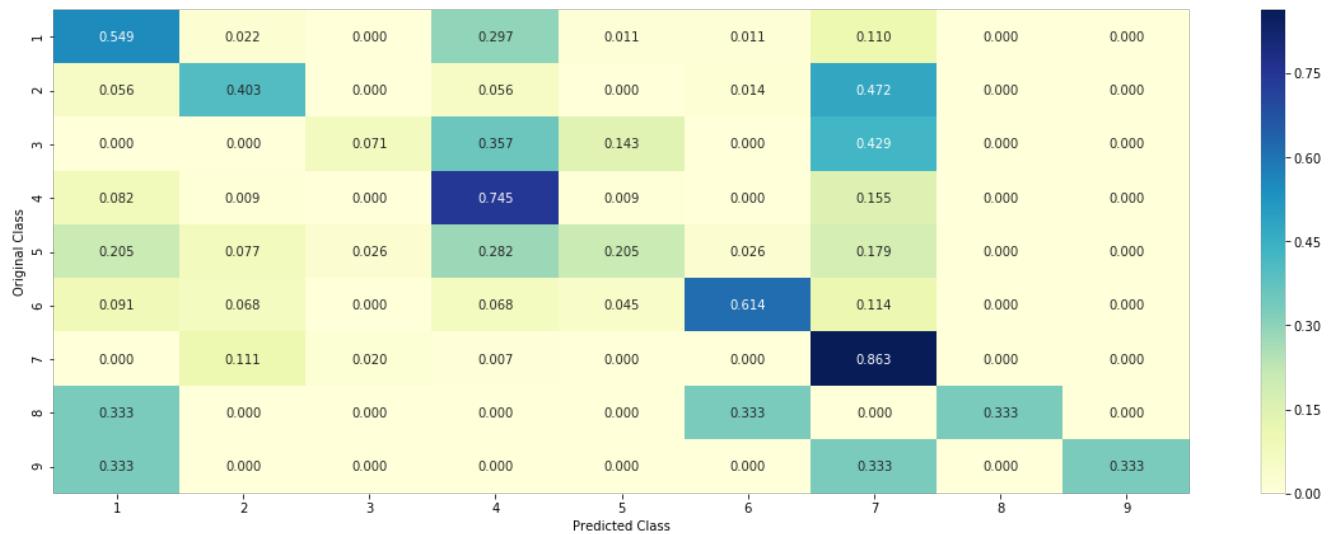
```

Log loss : 1.0963704284021722
Number of mis-classified points : 0.37593984962406013
----- Confusion matrix -----





Recall matrix (Row sum=1)



4.5.3. Feature Importance

4.5.3.1. Correctly Classified point

In [126]:

```
# test_point_index = 10
clf = RandomForestClassifier(n_estimators=alpha[int(best_alpha/2)], criterion='gini', max_depth=max_depth[int(best_alpha%2)], random_state=42, n_jobs=-1)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

test_point_index = 1
no_feature = 100
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:", np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.feature_importances_)
print("-"*50)
get_imfeature_names(indices[:no_feature], test_df['TEXT'].iloc[test_point_index],test_df['Gene'].iloc[test_point_index],test_df['Variant'].iloc[test_point_index], no_feature)
```

```
Predicted Class : 7
```

```
Predicted Class Probabilities: [[0.0238 0.1493 0.0117 0.019 0.0342 0.024 0.732 0.0027 0.0033]]
```

```
Actual Class : 7
```

```
-----  
0 Text feature [incubated] present in test data point [True]
```

```
90 Text feature [abl] present in test data point [True]
```

```
91 Text feature [myeloproliferative] present in test data point [True]
```

```
Out of the top 100 features 3 are present in query point
```

4.5.3.2. Incorrectly Classified point

```
In [127]:
```

```
test_point_index = 100  
no_feature = 100  
predicted_cls = sig_clf.predict(test_x_onehotCoding[test_point_index])  
print("Predicted Class :", predicted_cls[0])  
print("Predicted Class Probabilities:", np.round(sig_clf.predict_proba(test_x_onehotCoding[test_point_index]),4))  
print("Actual Class :", test_y[test_point_index])  
indices = np.argsort(-clf.feature_importances_)  
print("-"*50)  
get_imfeature_names(indices[:no_feature], test_df['TEXT'].iloc[test_point_index],test_df['Gene'].iloc[test_point_index],test_df['Variation'].iloc[test_point_index], no_feature)
```

```
Predicted Class : 6
```

```
Predicted Class Probabilities: [[0.0295 0.1458 0.0122 0.0262 0.0399 0.6298 0.1103 0.003 0.0034]]
```

```
Actual Class : 6
```

```
-----  
0 Text feature [incubated] present in test data point [True]
```

```
8 Text feature [showing] present in test data point [True]
```

```
88 Text feature [participate] present in test data point [True]
```

```
90 Text feature [abl] present in test data point [True]
```

```
98 Text feature [erk] present in test data point [True]
```

```
Out of the top 100 features 5 are present in query point
```

4.5.3. Hyper parameter tuning (With Response Coding)

```
In [128]:
```

```
# -----  
# default parameters  
# sklearn.ensemble.RandomForestClassifier(n_estimators=10, criterion='gini', max_depth=None, min_samples_split=2,  
# min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='auto', max_leaf_nodes=None, min_impurity_decrease=0.0,  
# min_impurity_split=None, bootstrap=True, oob_score=False, n_jobs=1, random_state=None, verbose=0, warm_start=False,  
# class_weight=None)  
  
# Some of methods of RandomForestClassifier()  
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.  
# predict(X) Perform classification on samples in X.  
# predict_proba (X) Perform classification on samples in X.  
  
# some of attributes of RandomForestClassifier()  
# feature_importances_ : array of shape = [n_features]  
# The feature importances (the higher, the more important the feature).  
  
# -----  
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/random-forest-and-their-construction-2/  
# -----  
  
# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifi  
erCV.html  
# -----  
# default paramters  
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)  
#  
# some of the methods of CalibratedClassifierCV()  
# fit(X, y[, sample_weight]) Fit the calibrated model  
# get_params([deep]) Get parameters for this estimator.  
# predict(X) Predict the target of new samples.
```

```

# predict_proba(X) Posterior probabilities of classification
#-----
# video link:
#-----

alpha = [10,50,100,200,500,1000]
max_depth = [2,3,5,10]
cv_log_error_array = []
for i in alpha:
    for j in max_depth:
        print("for n_estimators =", i, "and max depth = ", j)
        clf = RandomForestClassifier(n_estimators=i, criterion='gini', max_depth=j, random_state=42, n_jobs=-1)
        clf.fit(train_x_responseCoding, train_y)
        sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
        sig_clf.fit(train_x_responseCoding, train_y)
        sig_clf_probs = sig_clf.predict_proba(cv_x_responseCoding)
        cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
        print("Log Loss :",log_loss(cv_y, sig_clf_probs))
    ...

fig, ax = plt.subplots()
features = np.dot(np.array(alpha)[ :,None],np.array(max_depth)[None]).ravel()
ax.plot(features, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[int(i/4)],max_depth[int(i%4)],str(txt), (features[i],cv_log_error_array[i])))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()
"""

best_alpha = np.argmin(cv_log_error_array)
clf = RandomForestClassifier(n_estimators=alpha[int(best_alpha/4)], criterion='gini', max_depth=max_depth[int(best_alpha%4)], random_state=42, n_jobs=-1)
clf.fit(train_x_responseCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_responseCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_responseCoding)
print('For values of best alpha = ', alpha[int(best_alpha/4)], "The train log loss is:",log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_responseCoding)
print('For values of best alpha = ', alpha[int(best_alpha/4)], "The cross validation log loss is:",log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_responseCoding)
print('For values of best alpha = ', alpha[int(best_alpha/4)], "The test log loss is:",log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))

```

```

for n_estimators = 10 and max depth = 2
Log Loss : 2.18758504975507
for n_estimators = 10 and max depth = 3
Log Loss : 1.747402860219479
for n_estimators = 10 and max depth = 5
Log Loss : 1.7689363746298385
for n_estimators = 10 and max depth = 10
Log Loss : 2.0769438011661174
for n_estimators = 50 and max depth = 2
Log Loss : 1.7606121192525372
for n_estimators = 50 and max depth = 3
Log Loss : 1.511236885032755
for n_estimators = 50 and max depth = 5
Log Loss : 1.5484103731607666
for n_estimators = 50 and max depth = 10
Log Loss : 1.8476208704294077
for n_estimators = 100 and max depth = 2
Log Loss : 1.6130519827601555
for n_estimators = 100 and max depth = 3
Log Loss : 1.5279011986245439
for n_estimators = 100 and max depth = 5
Log Loss : 1.3842223949751662
for n_estimators = 100 and max depth = 10
Log Loss : 1.8024983328726145
for n_estimators = 200 and max depth = 2
Log Loss : 1.7209790320844593
for n_estimators = 200 and max depth = 3
Log Loss : 1.5758185871754435

```

```

for n_estimators = 200 and max depth = 5
Log Loss : 1.4177165724965564
for n_estimators = 200 and max depth = 10
Log Loss : 1.7569902991958692
for n_estimators = 500 and max depth = 2
Log Loss : 1.7480467887065991
for n_estimators = 500 and max depth = 3
Log Loss : 1.6638968713978974
for n_estimators = 500 and max depth = 5
Log Loss : 1.465189999234827
for n_estimators = 500 and max depth = 10
Log Loss : 1.7753452808327246
for n_estimators = 1000 and max depth = 2
Log Loss : 1.7376333164600732
for n_estimators = 1000 and max depth = 3
Log Loss : 1.6635789606438813
for n_estimators = 1000 and max depth = 5
Log Loss : 1.4428382897517655
for n_estimators = 1000 and max depth = 10
Log Loss : 1.7441116971158266
For values of best alpha = 100 The train log loss is: 0.05190854019926662
For values of best alpha = 100 The cross validation log loss is: 1.3842223949751662
For values of best alpha = 100 The test log loss is: 1.3945578346057126

```

4.5.4. Testing model with best hyper parameters (Response Coding)

In [129]:

```

# -----
# default parameters
# sklearn.ensemble.RandomForestClassifier(n_estimators=10, criterion='gini', max_depth=None, min_samples_split=2,
# min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='auto', max_leaf_nodes=None, min_impurity_decrease=0.0,
# min_impurity_split=None, bootstrap=True, oob_score=False, n_jobs=1, random_state=None, verbose=0, warm_start=False,
# class_weight=None)

# Some of methods of RandomForestClassifier()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# predict_proba (X) Perform classification on samples in X.

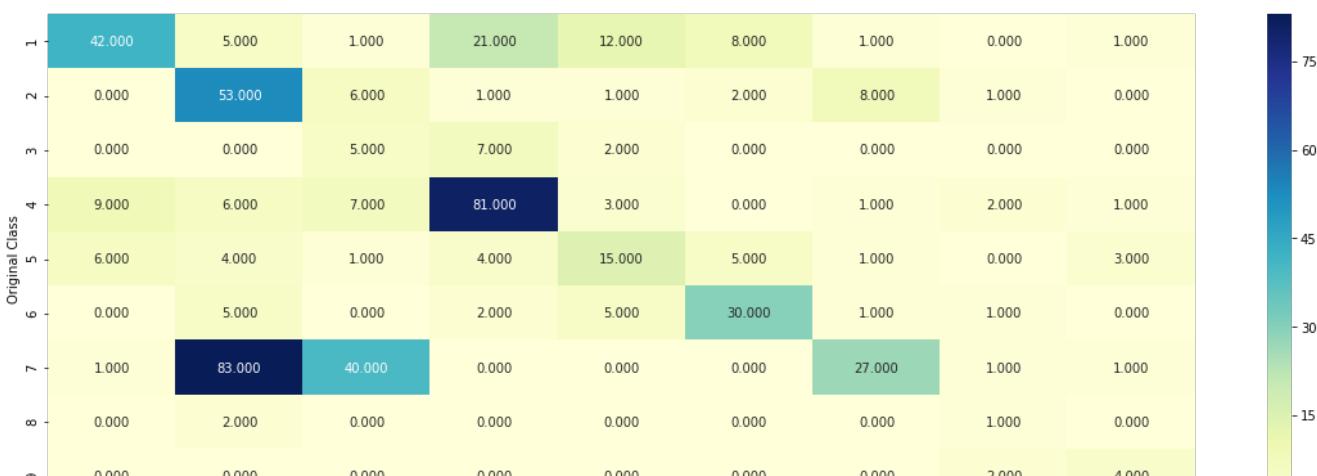
# some of attributes of RandomForestClassifier()
# feature_importances_ : array of shape = [n_features]
# The feature importances (the higher, the more important the feature).

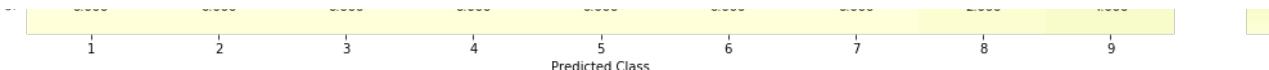
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/random-forest-and-their-construction-2/
# -----


clf = RandomForestClassifier(max_depth=max_depth[int(best_alpha/4)], n_estimators=alpha[int(best_alpha/4)], criterion='gini', max_features='auto', random_state=42)
predict_and_plot_confusion_matrix(train_x_responseCoding, train_y, cv_x_responseCoding, cv_y, clf)

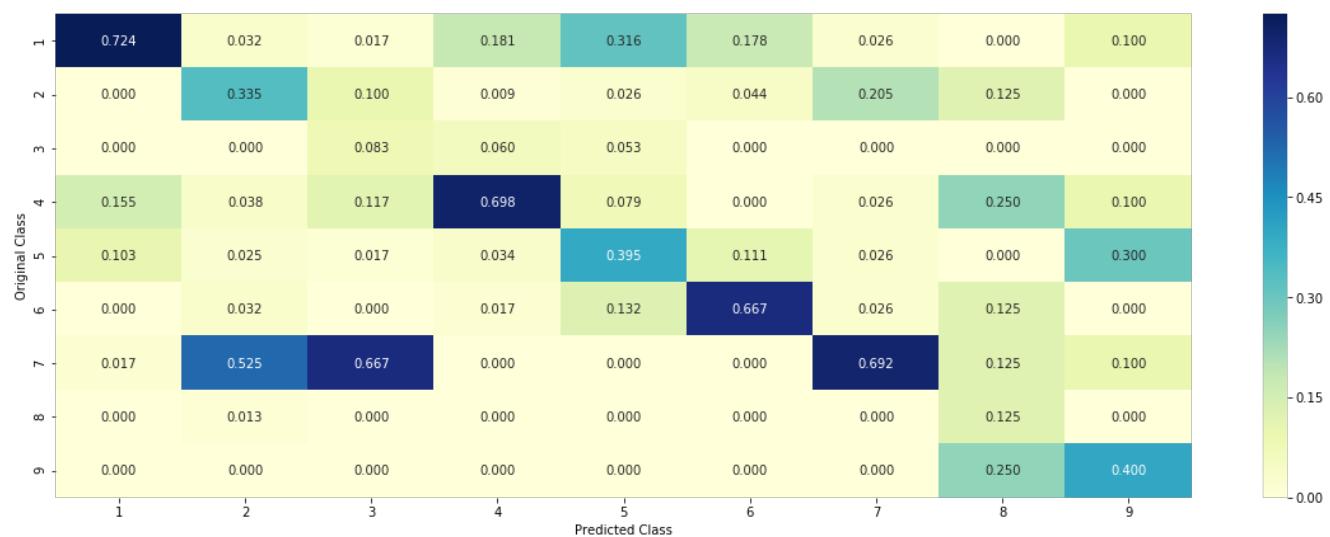
```

Log loss : 1.3842223949751662
Number of mis-classified points : 0.5150375939849624
----- Confusion matrix -----

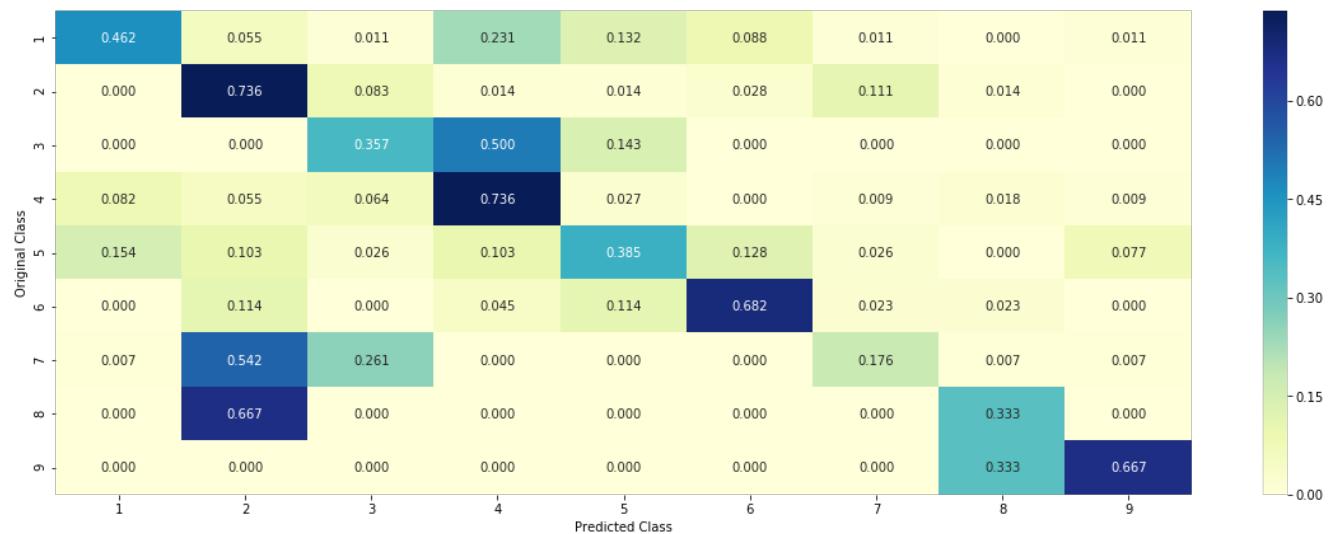




----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



4.5.5. Feature Importance

4.5.5.1. Correctly Classified point

In [130]:

```
clf = RandomForestClassifier(n_estimators=alpha[int(best_alpha/4)], criterion='gini', max_depth=max_depth[int(best_alpha%4)], random_state=42, n_jobs=-1)
clf.fit(train_x_responseCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_responseCoding, train_y)
```

```
test_point_index = 1
no_feature = 27
predicted_cls = sig_clf.predict(test_x_responseCoding[test_point_index].reshape(1,-1))
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:", np.round(sig_clf.predict_proba(test_x_responseCoding[test_point_index].reshape(1,-1)),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.feature_importances_)
print("-" * 50)
for i in indices:
```

```

for i in indices:
    if i<9:
        print("Gene is important feature")
    elif i<18:
        print("Variation is important feature")
    else:
        print("Text is important feature")

```

Predicted Class : 2
Predicted Class Probabilities: [[0.0154 0.5005 0.0972 0.0229 0.0271 0.0338 0.2745 0.0159 0.0126]]
Actual Class : 7

Variation is important feature
Variation is important feature
Variation is important feature
Variation is important feature
Gene is important feature
Variation is important feature
Variation is important feature
Text is important feature
Text is important feature
Text is important feature
Gene is important feature
Text is important feature
Text is important feature
Gene is important feature
Variation is important feature
Gene is important feature
Text is important feature
Gene is important feature
Gene is important feature
Variation is important feature
Variation is important feature
Text is important feature
Gene is important feature
Text is important feature
Text is important feature
Gene is important feature
Gene is important feature

4.5.5.2. Incorrectly Classified point

In [131]:

```

test_point_index = 100
predicted_cls = sig_clf.predict(test_x_responseCoding[test_point_index].reshape(1,-1))
print("Predicted Class :", predicted_cls[0])
print("Predicted Class Probabilities:", np.round(sig_clf.predict_proba(test_x_responseCoding[test_point_index].reshape(1,-1)),4))
print("Actual Class :", test_y[test_point_index])
indices = np.argsort(-clf.feature_importances_)
print("-"*50)
for i in indices:
    if i<9:
        print("Gene is important feature")
    elif i<18:
        print("Variation is important feature")
    else:
        print("Text is important feature")

```

Predicted Class : 2
Predicted Class Probabilities: [[0.0152 0.3863 0.0591 0.0254 0.0285 0.3273 0.1323 0.0147 0.0112]]
Actual Class : 6

Variation is important feature
Variation is important feature
Variation is important feature
Variation is important feature
Gene is important feature
Variation is important feature
Variation is important feature
Text is important feature
Text is important feature
Text is important feature
Gene is important feature

```
Text is important feature
Text is important feature
Gene is important feature
Variation is important feature
Gene is important feature
Text is important feature
Gene is important feature
Gene is important feature
Variation is important feature
Variation is important feature
Text is important feature
Gene is important feature
Text is important feature
Text is important feature
Gene is important feature
Gene is important feature
```

4.7 Stack the models

4.7.1 testing with hyper parameter tuning

In [132]:

```
# read more about SGDClassifier() at http://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

#-----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/geometric-intuition-1/
#-----


# read more about support vector machines with linear kernels here http://scikit-learn.org/stable/modules/generated/sklearn.svm.SVC
.html
# -----
# default parameters
# SVC(C=1.0, kernel='rbf', degree=3, gamma='auto', coef0=0.0, shrinking=True, probability=False, tol=0.001,
# cache_size=200, class_weight=None, verbose=False, max_iter=-1, decision_function_shape='ovr', random_state=None)

# Some of methods of SVM()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/mathematical-derivation-copy-8/
# -----


# read more about support vector machines with linear kernels here http://scikit-learn.org/stable/modules/generated/sklearn.ensemble.RandomForestClassifier.html
# -----
# default parameters
# sklearn.ensemble.RandomForestClassifier(n_estimators=10, criterion='gini', max_depth=None, min_samples_split=2,
# min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='auto', max_leaf_nodes=None, min_impurity_decrease=0.0,
# min_impurity_split=None, bootstrap=True, oob_score=False, n_jobs=1, random_state=None, verbose=0, warm_start=False,
# class_weight=None)

# Some of methods of RandomForestClassifier()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# predict_proba (X) Perform classification on samples in X.

# some of attributes of RandomForestClassifier()
# feature_importances_ : array of shape = [n_features]
# The feature importances (the higher, the more important the feature).

# -----
```

```
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/random-forest-and-their-construction-2/
# -----
```

```
clf1 = SGDClassifier(alpha=0.001, penalty='l2', loss='log', class_weight='balanced', random_state=0)
clf1.fit(train_x_onehotCoding, train_y)
sig_clf1 = CalibratedClassifierCV(clf1, method="sigmoid")

clf2 = SGDClassifier(alpha=1, penalty='l2', loss='hinge', class_weight='balanced', random_state=0)
clf2.fit(train_x_onehotCoding, train_y)
sig_clf2 = CalibratedClassifierCV(clf2, method="sigmoid")

clf3 = MultinomialNB(alpha=0.001)
clf3.fit(train_x_onehotCoding, train_y)
sig_clf3 = CalibratedClassifierCV(clf3, method="sigmoid")

sig_clf1.fit(train_x_onehotCoding, train_y)
print("Logistic Regression : Log Loss: %0.2f" % (log_loss(cv_y, sig_clf1.predict_proba(cv_x_onehotCoding))))
sig_clf2.fit(train_x_onehotCoding, train_y)
print("Support vector machines : Log Loss: %0.2f" % (log_loss(cv_y, sig_clf2.predict_proba(cv_x_onehotCoding))))
sig_clf3.fit(train_x_onehotCoding, train_y)
print("Naive Bayes : Log Loss: %0.2f" % (log_loss(cv_y, sig_clf3.predict_proba(cv_x_onehotCoding))))
print("-"*50)
alpha = [0.0001, 0.001, 0.01, 0.1, 1, 10]
best_alpha = 999
for i in alpha:
    lr = LogisticRegression(C=i)
    sclf = StackingClassifier(classifiers=[sig_clf1, sig_clf2, sig_clf3], meta_classifier=lr, use_probas=True)
    sclf.fit(train_x_onehotCoding, train_y)
    print("Stacking Classifier : for the value of alpha: %f Log Loss: %0.3f" % (i, log_loss(cv_y, sclf.predict_proba(cv_x_onehotCoding))))
)
log_error = log_loss(cv_y, sclf.predict_proba(cv_x_onehotCoding))
if best_alpha > log_error:
    best_alpha = log_error
```

Logistic Regression : Log Loss: 1.06
 Support vector machines : Log Loss: 1.40
 Naive Bayes : Log Loss: 1.27

Stacking Classifier : for the value of alpha: 0.000100 Log Loss: 2.177
 Stacking Classifier : for the value of alpha: 0.001000 Log Loss: 2.029
 Stacking Classifier : for the value of alpha: 0.010000 Log Loss: 1.484
 Stacking Classifier : for the value of alpha: 0.100000 Log Loss: 1.110
 Stacking Classifier : for the value of alpha: 1.000000 Log Loss: 1.195
 Stacking Classifier : for the value of alpha: 10.000000 Log Loss: 1.397

4.7.2 testing the model with the best hyper parameters

In [133]:

```
lr = LogisticRegression(C=0.1)
sclf = StackingClassifier(classifiers=[sig_clf1, sig_clf2, sig_clf3], meta_classifier=lr, use_probas=True)
sclf.fit(train_x_onehotCoding, train_y)

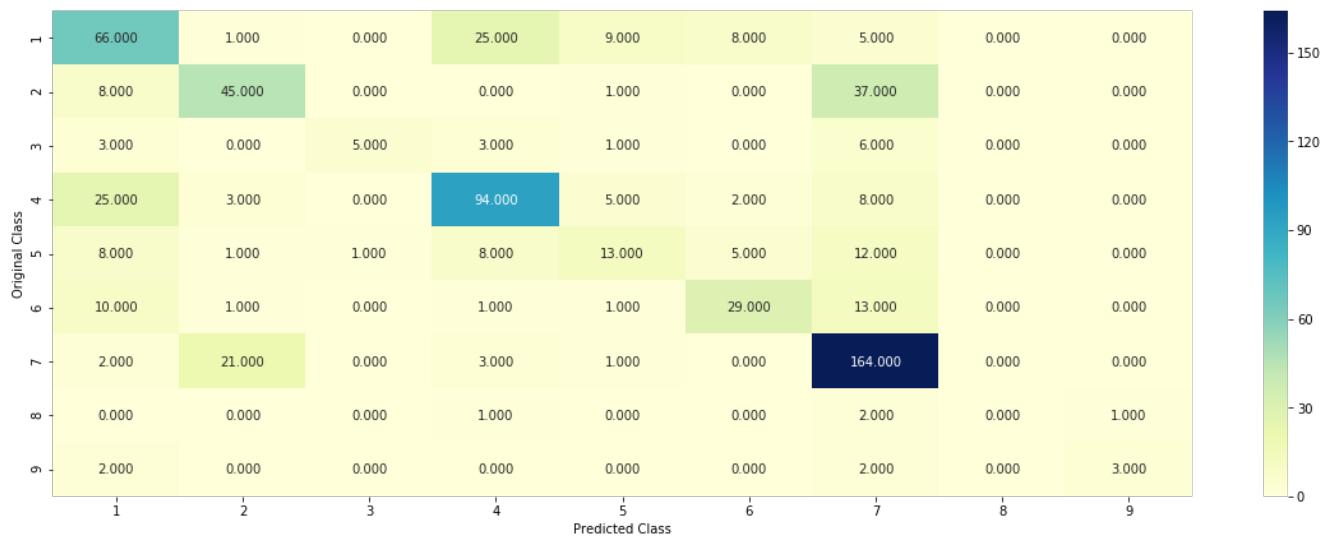
log_error = log_loss(train_y, sclf.predict_proba(train_x_onehotCoding))
print("Log loss (train) on the stacking classifier :",log_error)

log_error = log_loss(cv_y, sclf.predict_proba(cv_x_onehotCoding))
print("Log loss (CV) on the stacking classifier :",log_error)

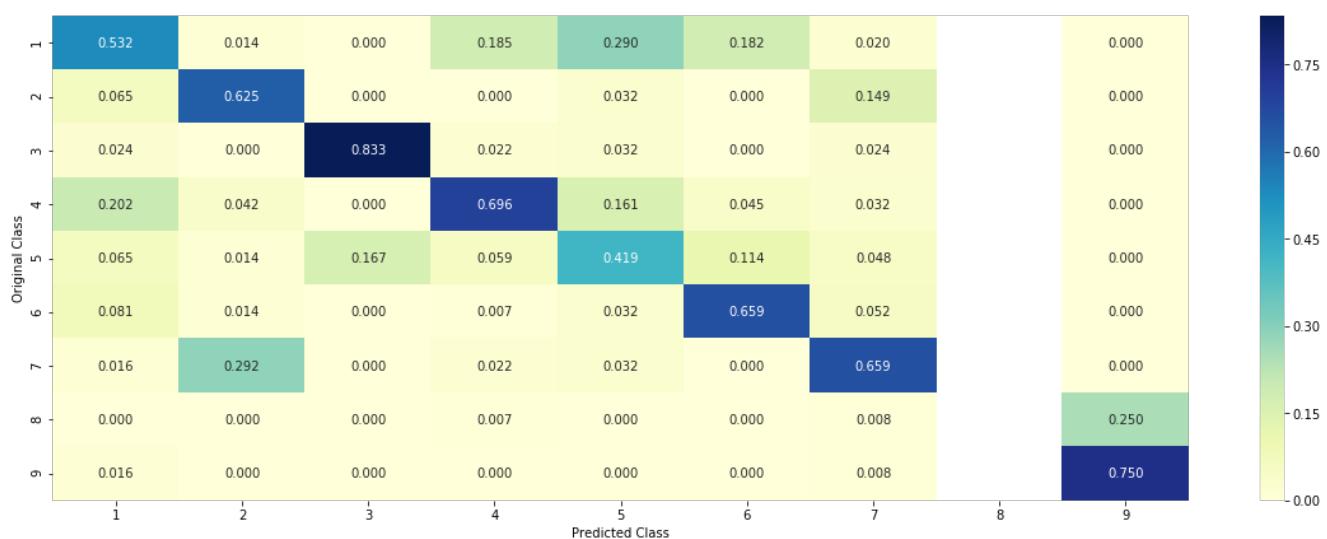
log_error = log_loss(test_y, sclf.predict_proba(test_x_onehotCoding))
print("Log loss (test) on the stacking classifier :",log_error)

print("Number of missclassified point :", np.count_nonzero((sclf.predict(test_x_onehotCoding)- test_y)/test_y.shape[0]))
plot_confusion_matrix(test_y=test_y, predict_y=sclf.predict(test_x_onehotCoding))
```

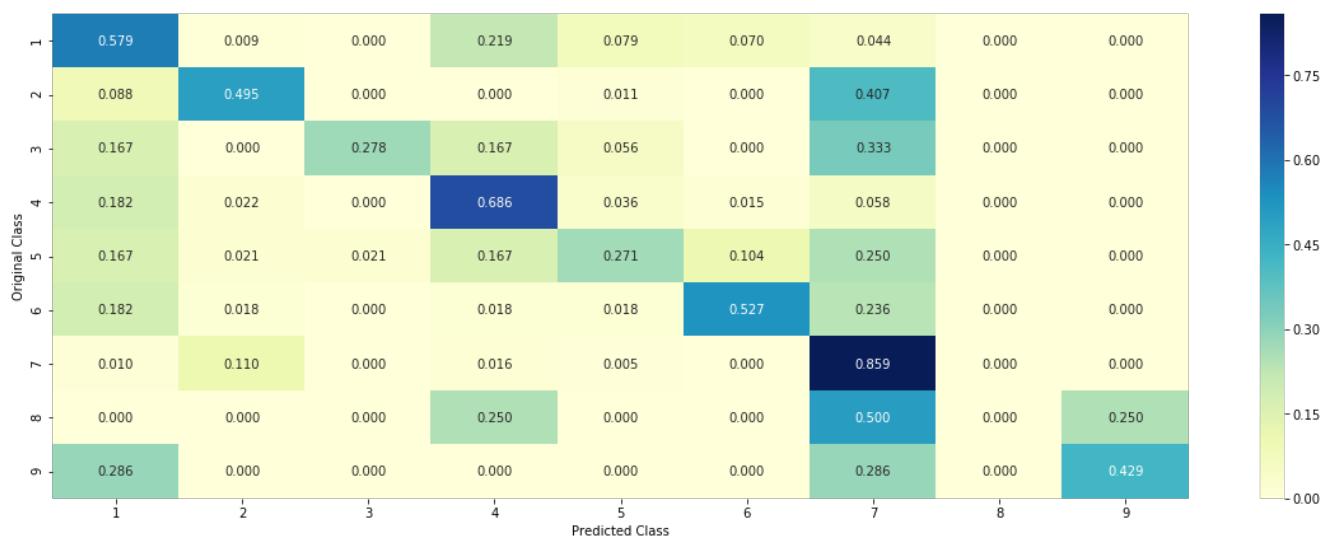
Log loss (train) on the stacking classifier : 0.655466308750808
 Log loss (CV) on the stacking classifier : 1.10992730705671
 Log loss (test) on the stacking classifier : 1.105496234480107
 Number of missclassified point : 0.3699248120300752
 ----- Confusion matrix -----



----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



4.7.3 Maximum Voting classifier

In [134]:

#Refer:<http://scikit-learn.org/stable/modules/generated/sklearn.ensemble.VotingClassifier.html>

```

from sklearn.ensemble import VotingClassifier
vclf = VotingClassifier(estimators=[('lr', sig_clf1), ('svc', sig_clf2), ('rf', sig_clf3)], voting='soft')
vclf.fit(train_x_onehotCoding, train_y)
print("Log loss (train) on the VotingClassifier :", log_loss(train_y, vclf.predict_proba(train_x_onehotCoding)))
print("Log loss (CV) on the VotingClassifier :", log_loss(cv_y, vclf.predict_proba(cv_x_onehotCoding)))
print("Log loss (test) on the VotingClassifier :", log_loss(test_y, vclf.predict_proba(test_x_onehotCoding)))
print("Number of missclassified point :", np.count_nonzero((vclf.predict(test_x_onehotCoding)- test_y))/test_y.shape[0])
plot_confusion_matrix(test_y=test_y, predict_y=vclf.predict(test_x_onehotCoding))

```

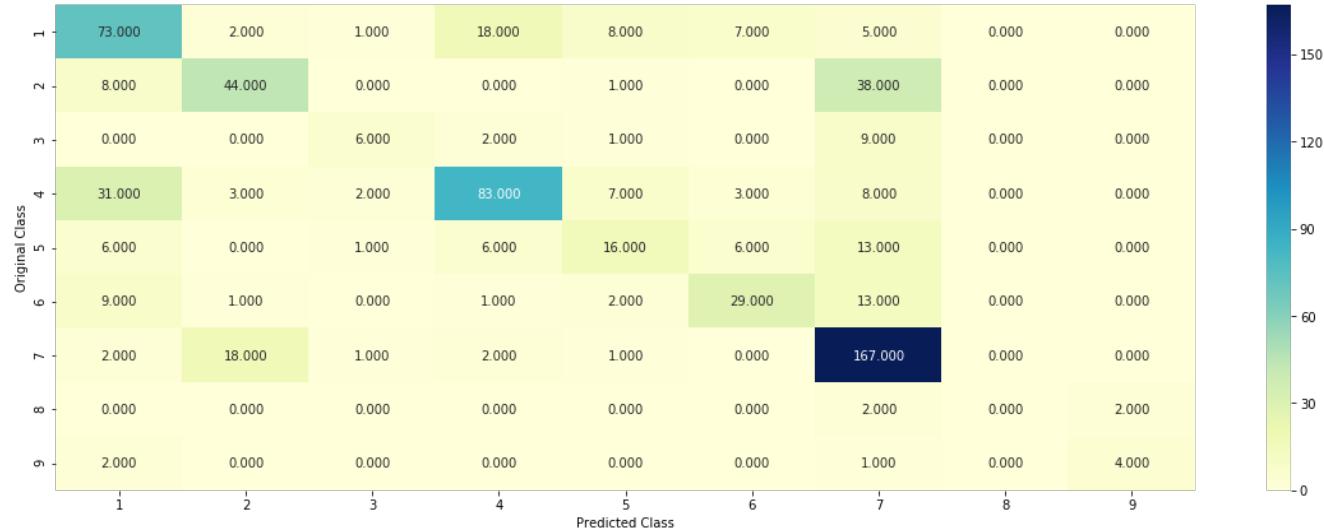
Log loss (train) on the VotingClassifier : 0.8457674734326065

Log loss (CV) on the VotingClassifier : 1.1162785336441456

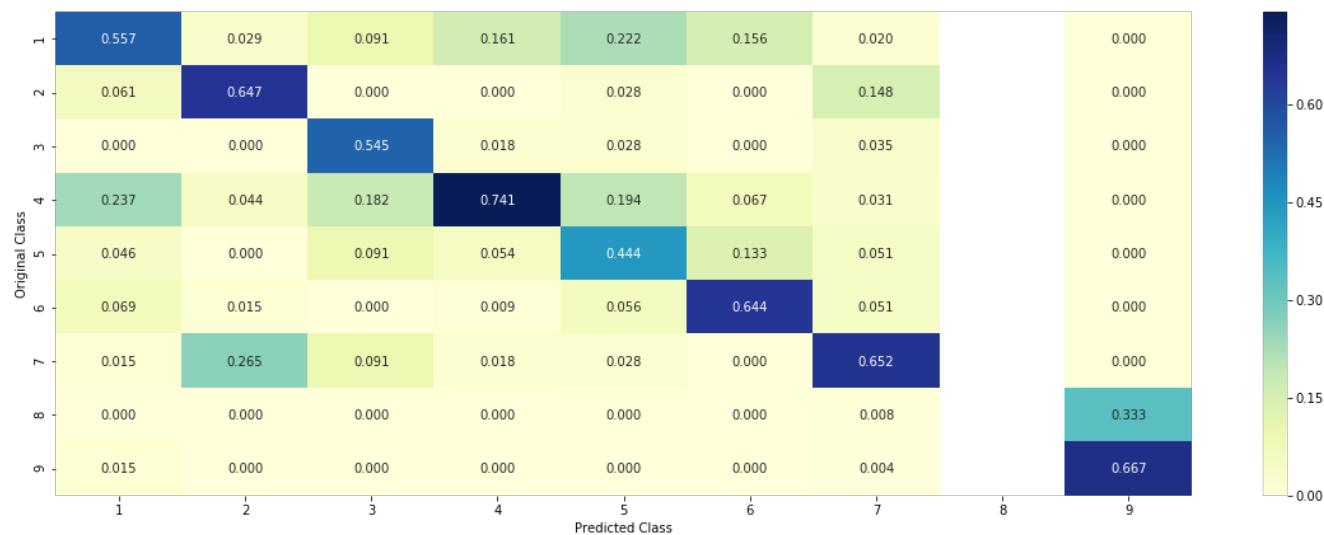
Log loss (test) on the VotingClassifier : 1.1295907688539037

Number of missclassified point : 0.36541353383458647

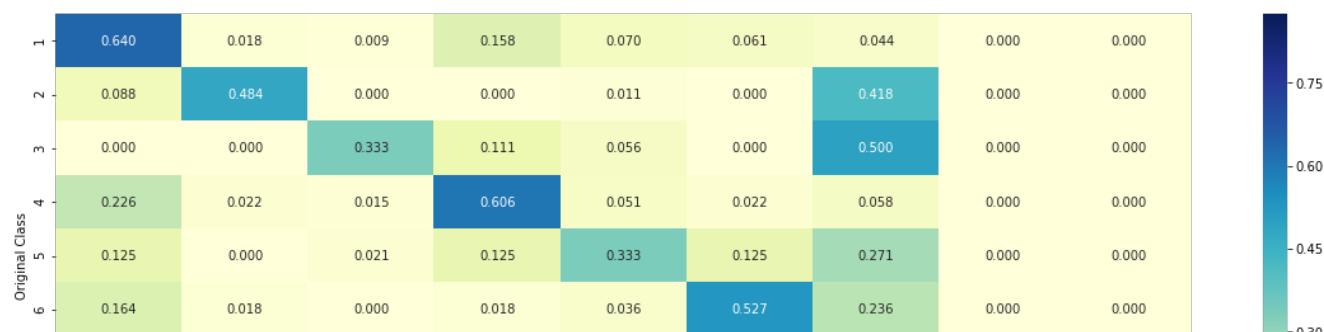
----- Confusion matrix -----

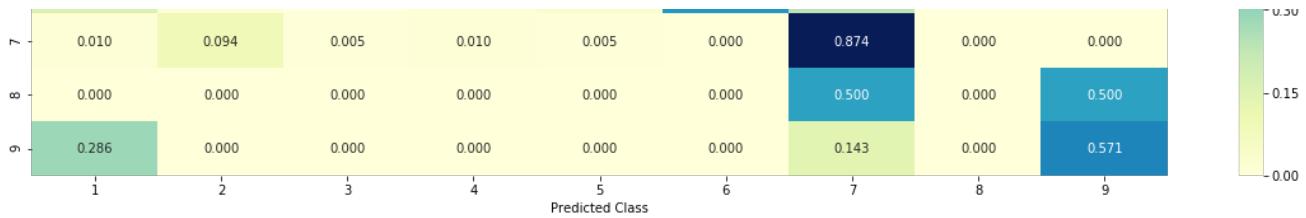


----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----





5. Assignments

1. Apply All the models with tf-idf features (Replace CountVectorizer with TfidfVectorizer and run the same cells)
2. Instead of using all the words in the dataset, use only the top 1000 words based on tf-idf values
3. Apply Logistic regression with CountVectorizer Features, including both unigrams and bigrams
4. Try any of the feature engineering techniques discussed in the course to reduce the CV and test log-loss to a value less than 1.0

Take-2 Instead of using all the words in the dataset, use only the top 1000 words based on tf-idf values

In [0]:

```
text_vectorizer = TfidfVectorizer(max_features = 1000)
train_text_feature_onehotCoding = text_vectorizer.fit_transform(train_df['TEXT'])

# don't forget to normalize every feature
train_text_feature_onehotCoding = normalize(train_text_feature_onehotCoding, axis=0)

# we use the same vectorizer that was trained on train data
test_text_feature_onehotCoding = text_vectorizer.transform(test_df['TEXT'])
# don't forget to normalize every feature
test_text_feature_onehotCoding = normalize(test_text_feature_onehotCoding, axis=0)

# we use the same vectorizer that was trained on train data
cv_text_feature_onehotCoding = text_vectorizer.transform(cv_df['TEXT'])
# don't forget to normalize every feature
cv_text_feature_onehotCoding = normalize(cv_text_feature_onehotCoding, axis=0)
```

Stacking the data

In [0]:

```
train_gene_var_onehotCoding = hstack((train_gene_feature_onehotCoding,train_variation_feature_onehotCoding))
test_gene_var_onehotCoding = hstack((test_gene_feature_onehotCoding,test_variation_feature_onehotCoding))
cv_gene_var_onehotCoding = hstack((cv_gene_feature_onehotCoding,cv_variation_feature_onehotCoding))

train_x_onehotCoding = hstack((train_gene_var_onehotCoding, train_text_feature_onehotCoding)).tocsr()
train_y = np.array(list(train_df['Class']))

test_x_onehotCoding = hstack((test_gene_var_onehotCoding, test_text_feature_onehotCoding)).tocsr()
test_y = np.array(list(test_df['Class']))

cv_x_onehotCoding = hstack((cv_gene_var_onehotCoding, cv_text_feature_onehotCoding)).tocsr()
cv_y = np.array(list(cv_df['Class']))

train_gene_var_responseCoding = np.hstack((train_gene_feature_responseCoding,train_variation_feature_responseCoding))
test_gene_var_responseCoding = np.hstack((test_gene_feature_responseCoding,test_variation_feature_responseCoding))
cv_gene_var_responseCoding = np.hstack((cv_gene_feature_responseCoding,cv_variation_feature_responseCoding))

train_x_responseCoding = np.hstack((train_gene_var_responseCoding, train_text_feature_responseCoding))
test_x_responseCoding = np.hstack((test_gene_var_responseCoding, test_text_feature_responseCoding))
cv_x_responseCoding = np.hstack((cv_gene_var_responseCoding, cv_text_feature_responseCoding))
```

Nieve Bayes

Hyperparameter tunning

In [142]:

```
# find more about Multinomial Naive base function here http://scikit-learn.org/stable/modules/generated/sklearn.naive_bayes.MultinomialNB.html
# -----
# default paramters
# sklearn.naive_bayes.MultinomialNB(alpha=1.0, fit_prior=True, class_prior=None)

# some of methods of MultinomialNB()
# fit(X, y[, sample_weight]) Fit Naive Bayes classifier according to X, y
# predict(X) Perform classification on an array of test vectors X.
# predict_log_proba(X) Return log-probability estimates for the test vector X.
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/naive-bayes-algorithm-1/
# -----


# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default paramters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/naive-bayes-algorithm-1/
# -----


alpha = [0.00001, 0.0001, 0.001, 0.1, 1, 10, 100, 1000]
cv_log_error_array = []
for i in alpha:
    print("for alpha =", i)
    clf = MultinomialNB(alpha=i)
    clf.fit(train_x_onehotCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_onehotCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
    # to avoid rounding error while multiplying probabilitites we use log-probability estimates
    print("Log Loss :", log_loss(cv_y, sig_clf_probs))

fig, ax = plt.subplots()
ax.plot(np.log10(alpha), cv_log_error_array, c='g')
for i, txt in enumerate(np.round(cv_log_error_array, 3)):
    ax.annotate((alpha[i], str(txt)), (np.log10(alpha[i]), cv_log_error_array[i]))
plt.grid()
plt.xticks(np.log10(alpha))
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

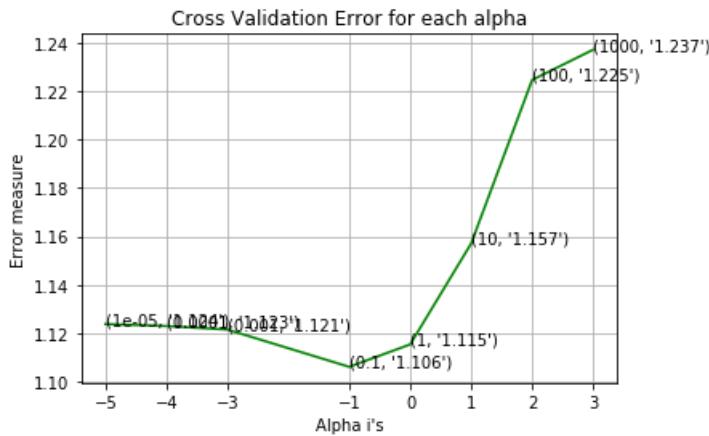
best_alpha = np.argmin(cv_log_error_array)
clf = MultinomialNB(alpha=alpha[best_alpha])
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:", log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:", log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:", log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))
```

```

for alpha = 1e-05
Log Loss : 1.1236768348210404
for alpha = 0.0001
Log Loss : 1.1228601147423698
for alpha = 0.001
Log Loss : 1.121398708556904
for alpha = 0.1
Log Loss : 1.1059597732612432
for alpha = 1
Log Loss : 1.1152541091683723
for alpha = 10
Log Loss : 1.1570356734580645
for alpha = 100
Log Loss : 1.224757724954742
for alpha = 1000
Log Loss : 1.2372768621327344

```



For values of best alpha = 0.1 The train log loss is: 1.0023083582120988

For values of best alpha = 0.1 The cross validation log loss is: 1.1059597732612432

For values of best alpha = 0.1 The test log loss is: 1.1902616910872104

Testing with best hyperparameter

In [143]:

```

# find more about Multinomial Naive base function here http://scikit-learn.org/stable/modules/generated/sklearn.naive_bayes.Multino
# mialNB.html
# -----
# default paramters
# sklearn.naive_bayes.MultinomialNB(alpha=1.0, fit_prior=True, class_prior=None)

# some of methods of MultinomialNB()
# fit(X, y[, sample_weight]) Fit Naive Bayes classifier according to X, y
# predict(X) Perform classification on an array of test vectors X.
# predict_log_proba(X) Return log-probability estimates for the test vector X.
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/naive-bayes-algorithm-1/
# -----


# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifi
# erCV.html
# -----
# default paramters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
# 

# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
# -----


clf = MultinomialNB(alpha=alpha[best_alpha])
clf.fit(train_X_onehotCoding, train_y)
cif_clf = CalibratedClassifierCV(clf, method="sigmoid")

```

```

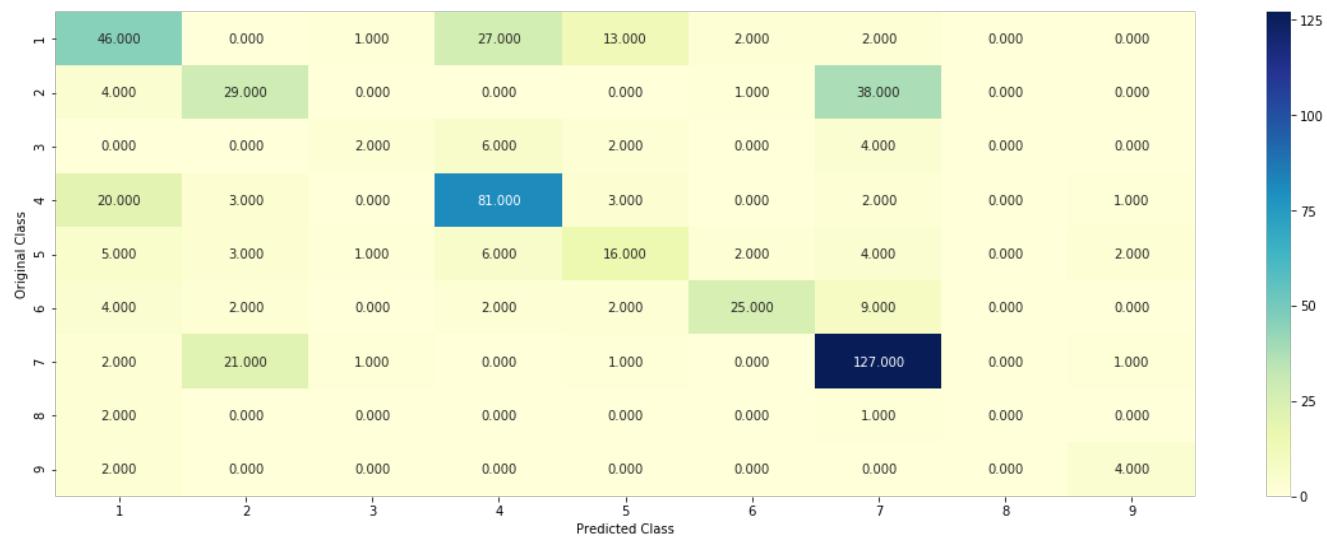
sig_clf = CalibratedClassifierCV(clf, method= "sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)
sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
# to avoid rounding error while multiplying probalites we use log-probability estimates
print("Log Loss :",log_loss(cv_y, sig_clf_probs))
print("Number of missclassified point :", np.count_nonzero((sig_clf.predict(cv_x_onehotCoding)- cv_y))/cv_y.shape[0])
plot_confusion_matrix(cv_y, sig_clf.predict(cv_x_onehotCoding.toarray()))

```

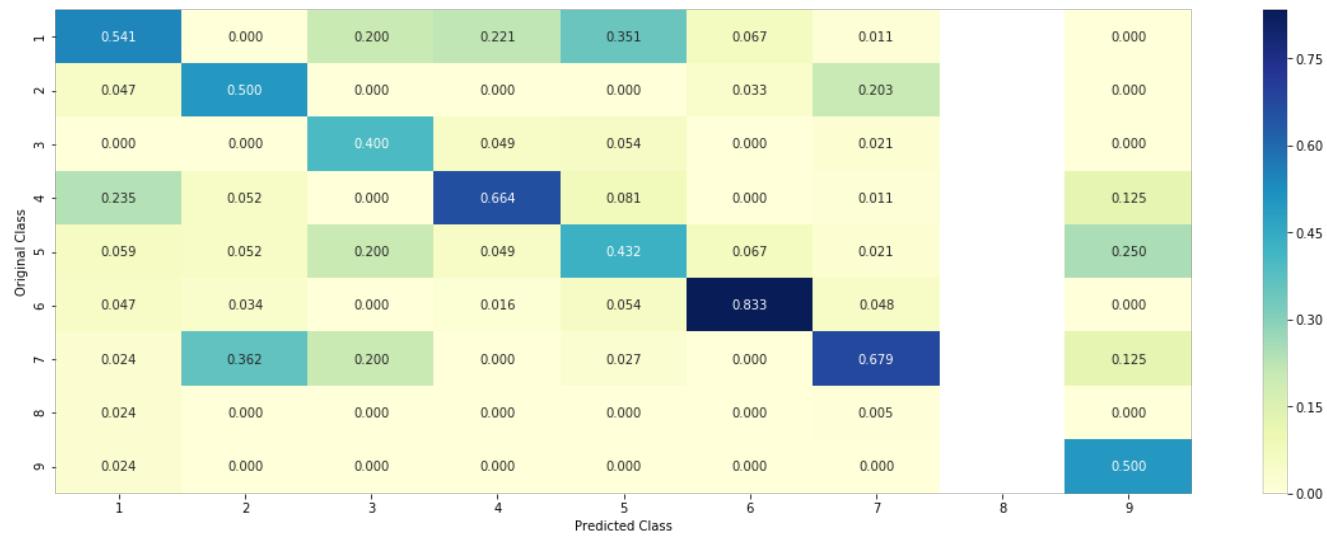
Log Loss : 1.1059597732612432

Number of missclassified point : 0.37969924812030076

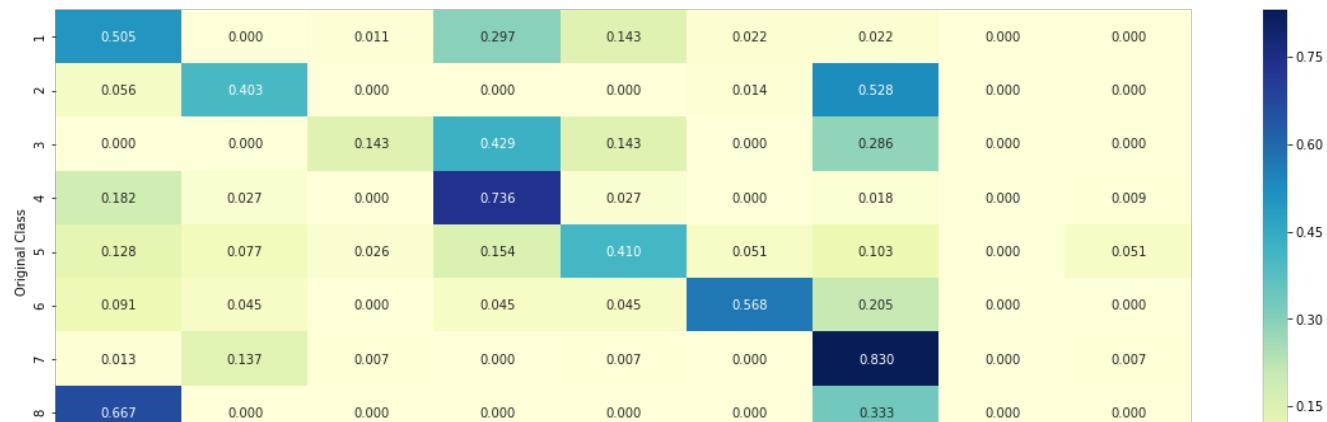
----- Confusion matrix -----

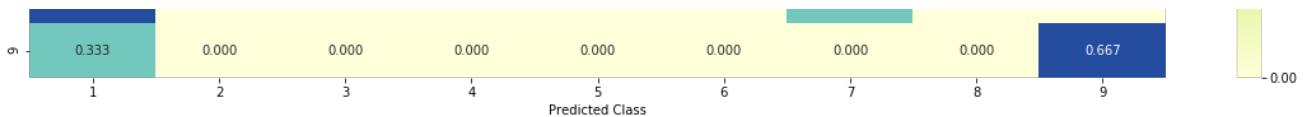


----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----





KNN

Hyperparameter tunning

In [144]:

```
# find more about KNeighborsClassifier() here http://scikit-learn.org/stable/modules/generated/sklearn.neighbors.KNeighborsClassifie
r.html
# -----
# default parameter
# KNeighborsClassifier(n_neighbors=5, weights='uniform', algorithm='auto', leaf_size=30, p=2,
# metric='minkowski', metric_params=None, n_jobs=1, **kwargs)

# methods of
# fit(X, y) : Fit the model using X as training data and y as target values
# predict(X):Predict the class labels for the provided data
# predict_proba(X):Return probability estimates for the test data X.
#-----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/k-nearest-neighbors-geometric-intuition-with-a
-toy-example-1/
#-----

# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifi
erCV.html
# -----
# default paramters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
#-----
# video link:
#-----
```

```
alpha = [5, 11, 15, 21, 31, 41, 51, 99]
cv_log_error_array = []
for i in alpha:
    print("for alpha =", i)
    clf = KNeighborsClassifier(n_neighbors=i)
    clf.fit(train_x_responseCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_responseCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_responseCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
    # to avoid rounding error while multiplying probabilités we use log-probability estimates
    print("Log Loss :",log_loss(cv_y, sig_clf_probs))

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[i],str(txt)), (alpha[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

best_alpha = np.argmin(cv_log_error_array)
clf = KNeighborsClassifier(n_neighbors=alpha[best_alpha])
clf.fit(train_x_responseCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_responseCoding, train_y)
```

```

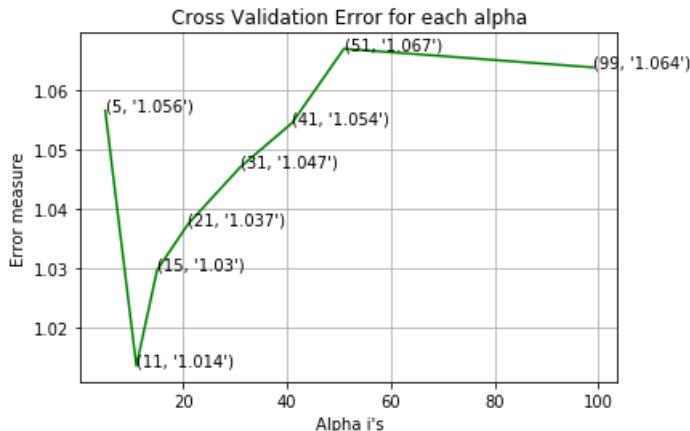
predict_y = sig_clf.predict_proba(train_x_responseCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:",log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_responseCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:",log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_responseCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:",log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))
)

```

```

for alpha = 5
Log Loss : 1.0564830505771439
for alpha = 11
Log Loss : 1.0135435510918993
for alpha = 15
Log Loss : 1.0296672314377557
for alpha = 21
Log Loss : 1.0374321505864585
for alpha = 31
Log Loss : 1.0469460531465717
for alpha = 41
Log Loss : 1.054393694523096
for alpha = 51
Log Loss : 1.0668795081589435
for alpha = 99
Log Loss : 1.0637397287369244

```



```

For values of best alpha = 11 The train log loss is: 0.6326988587879356
For values of best alpha = 11 The cross validation log loss is: 1.0135435510918993
For values of best alpha = 11 The test log loss is: 1.0616553263325705

```

Testing with best hyperparameter

In [145]:

```

# find more about KNeighborsClassifier() here http://scikit-learn.org/stable/modules/generated/sklearn.neighbors.KNeighborsClassifier.html
# -----
# default parameter
# KNeighborsClassifier(n_neighbors=5, weights='uniform', algorithm='auto', leaf_size=30, p=2,
# metric='minkowski', metric_params=None, n_jobs=1, **kwargs)

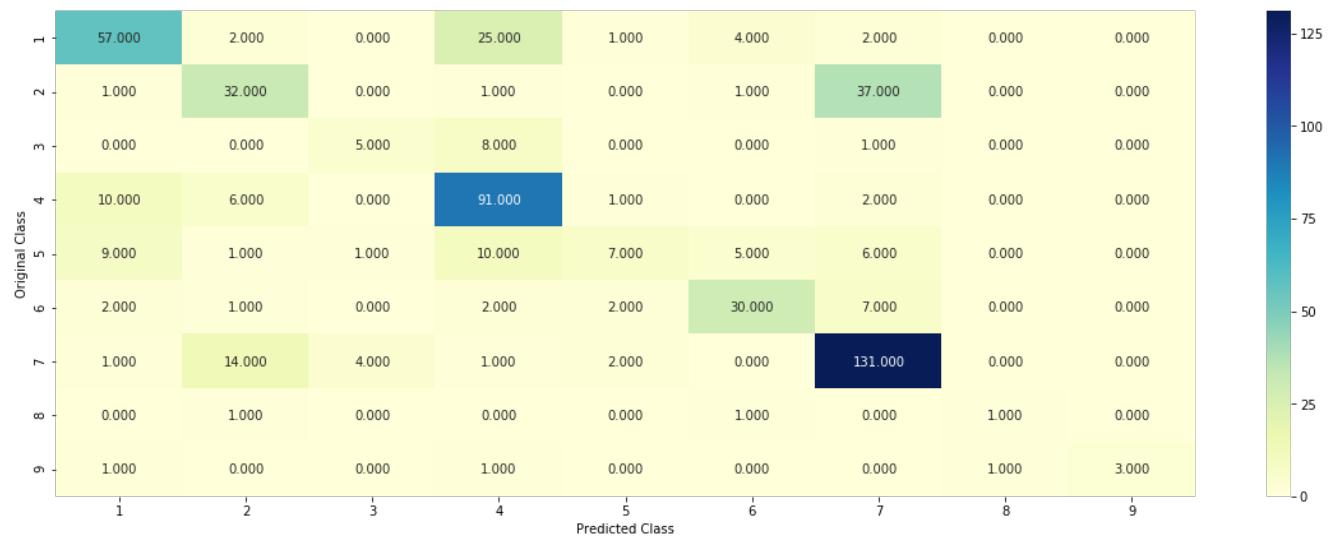
# methods of
# fit(X, y) : Fit the model using X as training data and y as target values
# predict(X):Predict the class labels for the provided data
# predict_proba(X):Return probability estimates for the test data X.
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/k-nearest-neighbors-geometric-intuition-with-a-toy-example-1/
# -----
clf = KNeighborsClassifier(n_neighbors=alpha[best_alpha])
predict_and_plot_confusion_matrix(train_x_responseCoding, train_y, cv_x_responseCoding, cv_y, clf)

```

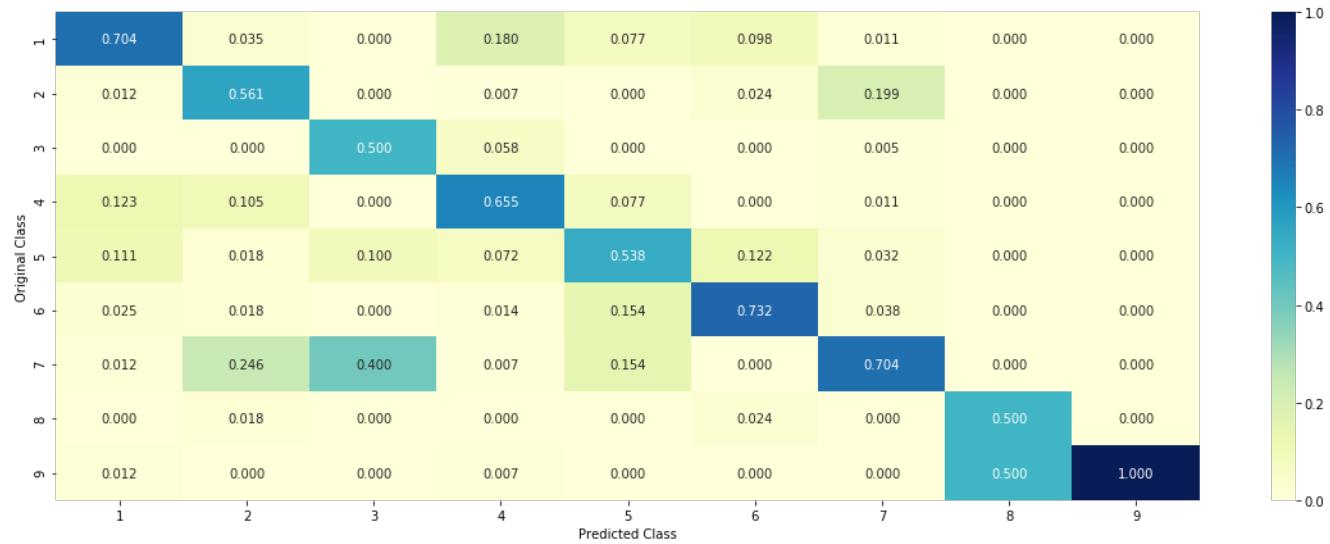
Log loss : 1.0135435510918993

Number of mis-classified points : 0.32894736842105265

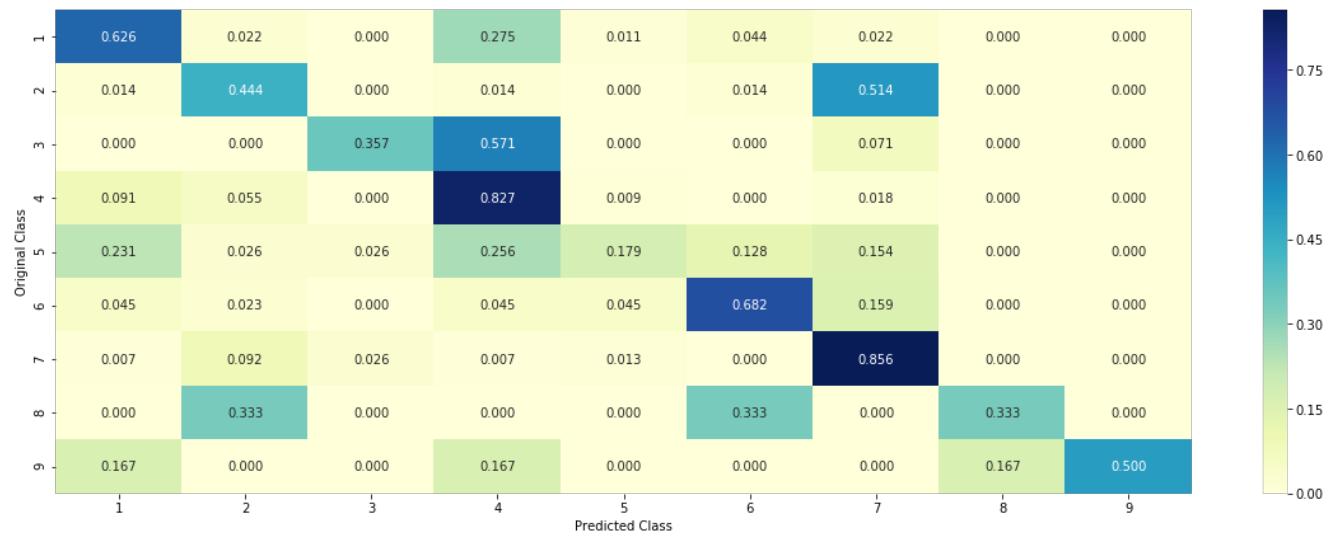
----- Confusion matrix -----



----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



Logistic Regression

with class balance

Hyperparameter tunning

In [146]:

```
# read more about SGDClassifier() at http://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

#-----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/geometric-intuition-1/
#-----


# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifi
erCV.html
# -----
# default paramters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
#-----
# video link:
#-----


alpha = [10 ** x for x in range(-6, 3)]
cv_log_error_array = []
for i in alpha:
    print("for alpha =", i)
    clf = SGDClassifier(class_weight='balanced', alpha=i, penalty='l2', loss='log', random_state=42)
    clf.fit(train_x_onehotCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_onehotCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
    # to avoid rounding error while multiplying probabilites we use log-probability estimates
    print("Log Loss :",log_loss(cv_y, sig_clf_probs))

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[i],str(txt)), (alpha[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

best_alpha = np.argmin(cv_log_error_array)
clf = SGDClassifier(class_weight='balanced', alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:",log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-1
5))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:",log_loss(y_cv, predict_y, labels=clf.classes_,
eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
```

```

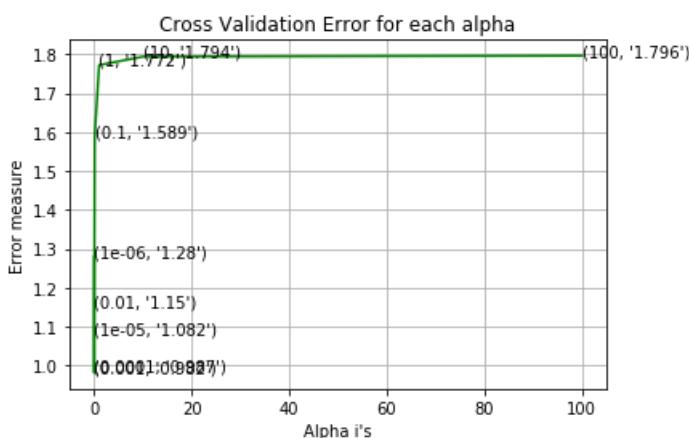
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:", log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15)
)

```

```

for alpha = 1e-06
Log Loss : 1.2801083229779742
for alpha = 1e-05
Log Loss : 1.0818904087665584
for alpha = 0.0001
Log Loss : 0.9874442298406902
for alpha = 0.001
Log Loss : 0.9815160005700989
for alpha = 0.01
Log Loss : 1.149655948437174
for alpha = 0.1
Log Loss : 1.5886157296559527
for alpha = 1
Log Loss : 1.7722751914770805
for alpha = 10
Log Loss : 1.793930928318426
for alpha = 100
Log Loss : 1.7963621339740337

```



For values of best alpha = 0.001 The train log loss is: 0.8983947859598651

For values of best alpha = 0.001 The cross validation log loss is: 0.9815160005700989

For values of best alpha = 0.001 The test log loss is: 1.0627376376283617

Testing with best parameter

In [147]:

```

# read more about SGDClassifier() at http://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

#-----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/geometric-intuition-1/
#-----
clf = SGDClassifier(class_weight='balanced', alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
predict_and_plot_confusion_matrix(train_X_onehotCoding, train_y, cv_X_onehotCoding, cv_y, clf)

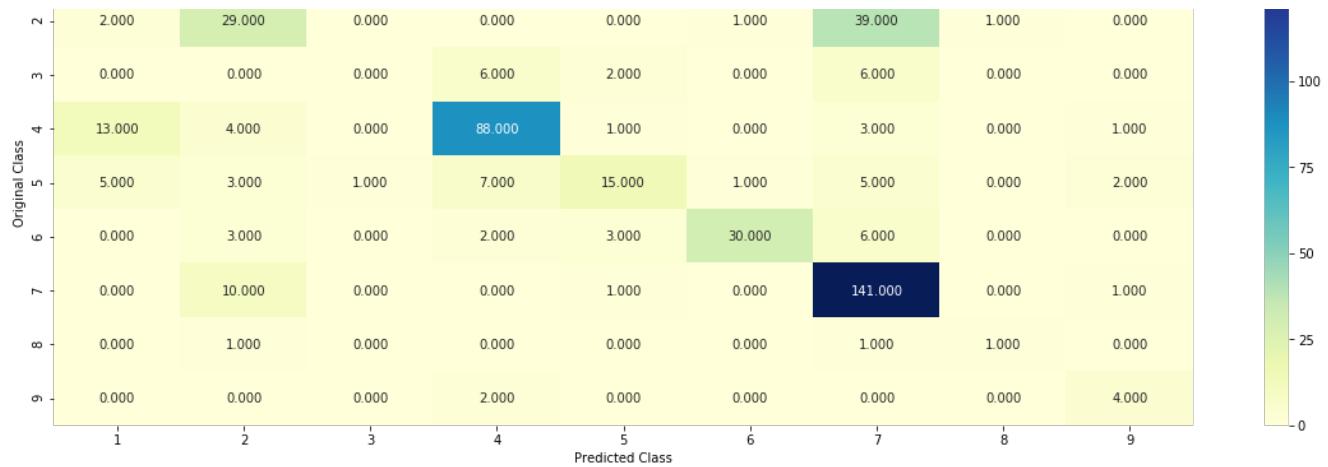
```

Log loss : 0.9815160005700989

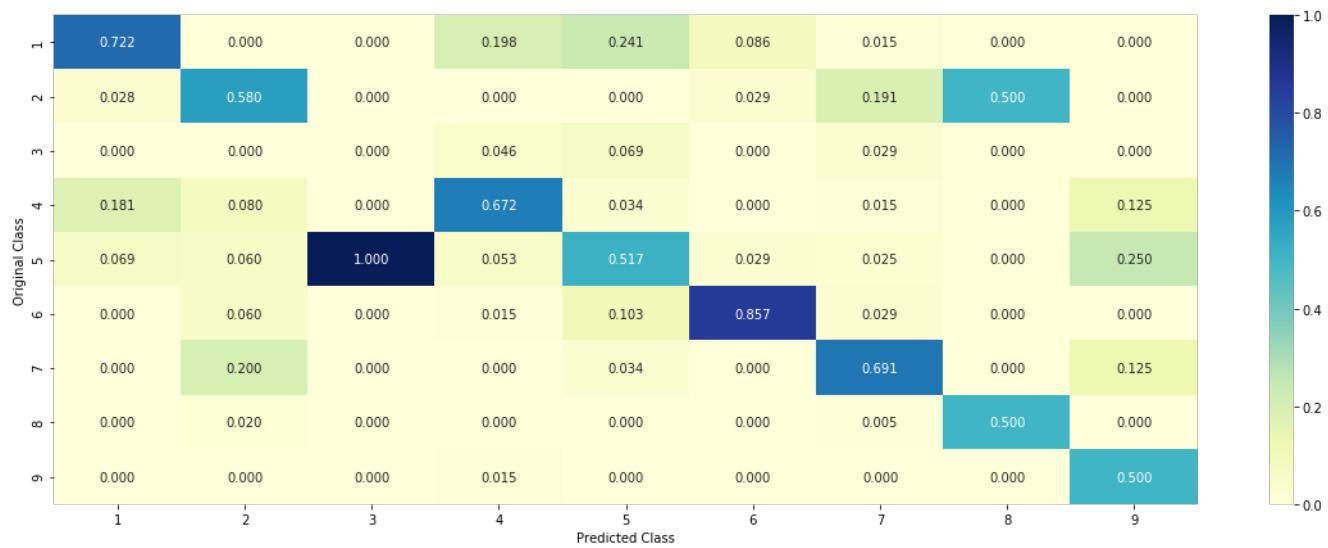
Number of mis-classified points : 0.3233082706766917

----- Confusion matrix -----

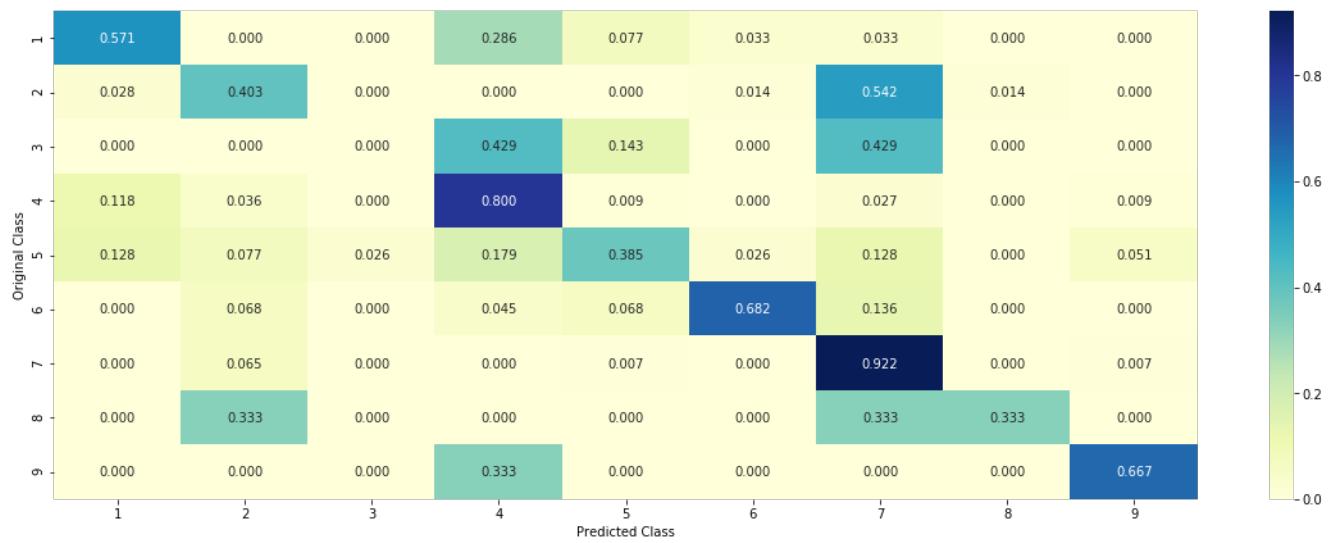
52.000	0.000	0.000	26.000	7.000	3.000	3.000	0.000	0.000
--------	-------	-------	--------	-------	-------	-------	-------	-------



----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



Without class balance

In [148]:

```
alpha = [10 ** x for x in range(-6, 3)]
cv_log_error_array = []
for i in alpha:
    print("for alpha =", i)
```

```

clf = SGDClassifier(alpha=i, penalty='l2', loss='log', random_state=42)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)
sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
# to avoid rounding error while multiplying probabilities we use log-probability estimates
print("Log Loss :",log_loss(cv_y, sig_clf_probs))

```

```

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[i],str(txt)), (alpha[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

```

```

best_alpha = np.argmin(cv_log_error_array)
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

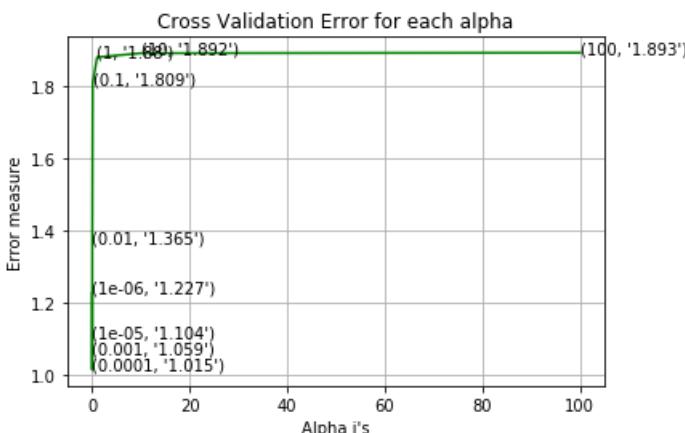
predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:",log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:",log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:",log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))
)

```

```

for alpha = 1e-06
Log Loss : 1.2271573230834383
for alpha = 1e-05
Log Loss : 1.1039299678540748
for alpha = 0.0001
Log Loss : 1.0147057708946632
for alpha = 0.001
Log Loss : 1.0591283617127423
for alpha = 0.01
Log Loss : 1.365430846892419
for alpha = 0.1
Log Loss : 1.8085274092233943
for alpha = 1
Log Loss : 1.8804472330152031
for alpha = 10
Log Loss : 1.8916521425533974
for alpha = 100
Log Loss : 1.8929495400821272

```



For values of best alpha = 0.0001 The train log loss is: 0.6989369533482036
 For values of best alpha = 0.0001 The cross validation log loss is: 1.0147057708946632
 For values of best alpha = 0.0001 The test log loss is: 1.0198629957292193

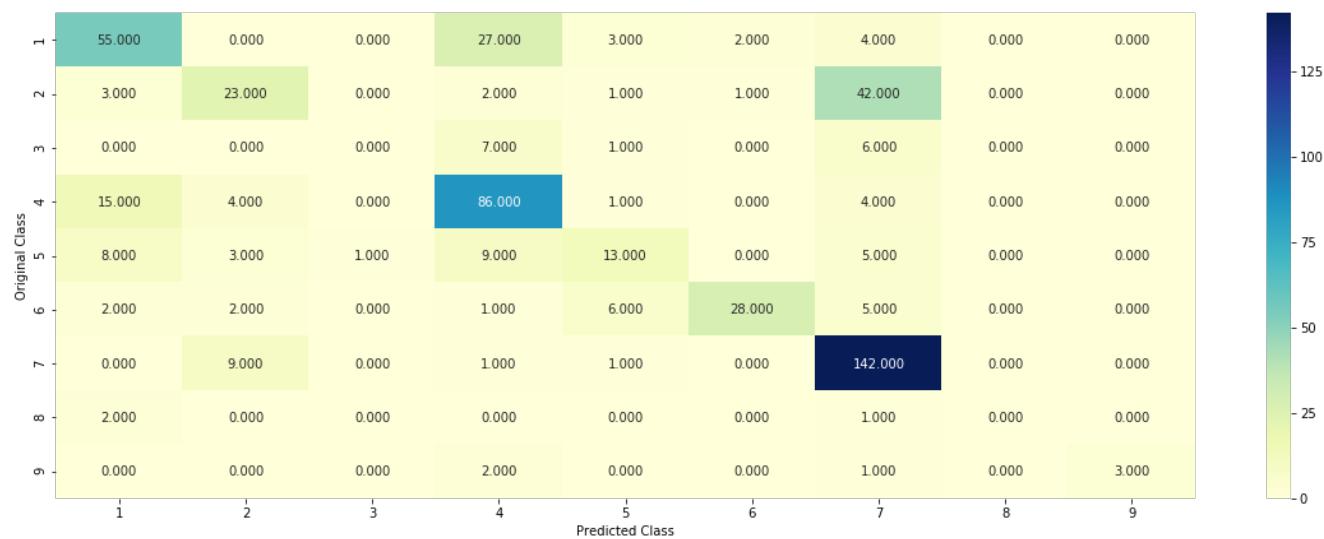
Testing with best parameter

In [149]:

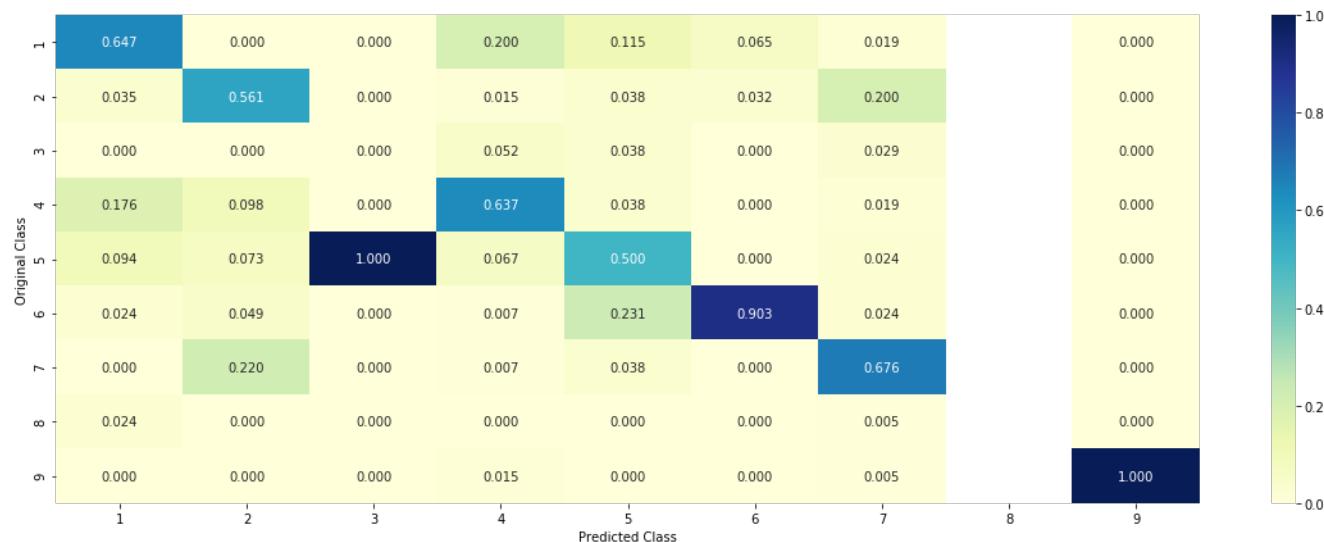
```
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
predict_and_plot_confusion_matrix(train_x_onehotCoding, train_y, cv_x_onehotCoding, cv_y, clf)
```

Log loss : 1.0147057708946632
 Number of mis-classified points : 0.34210526315789475

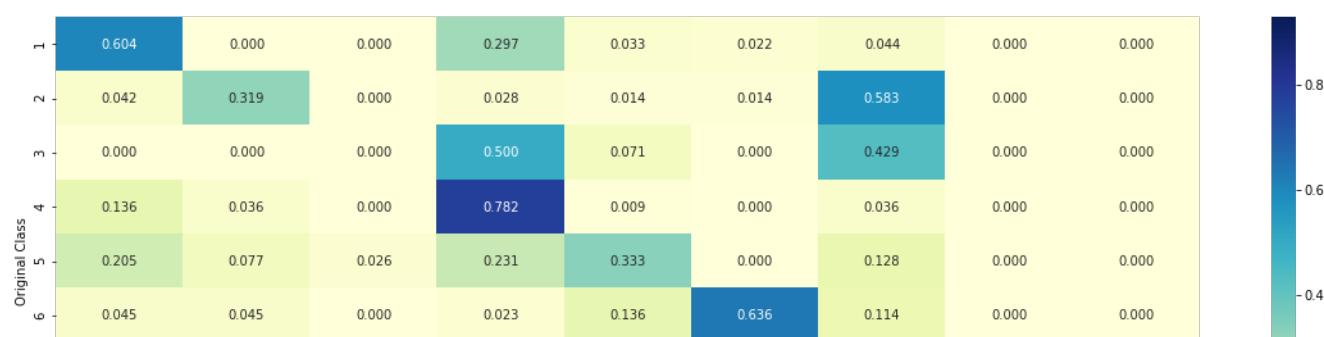
----- Confusion matrix -----

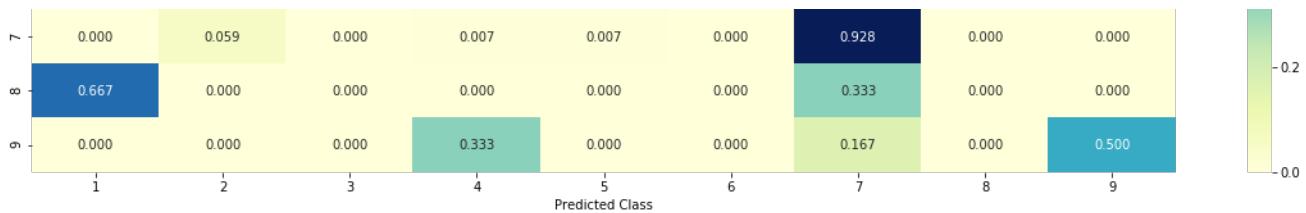


----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----





Linear SVM

Hyperparameter tuning

In [150]:

```
# read more about support vector machines with linear kernels here http://scikit-learn.org/stable/modules/generated/sklearn.svm.SVC.html

# -----
# default parameters
# SVC(C=1.0, kernel='rbf', degree=3, gamma='auto', coef0=0.0, shrinking=True, probability=False, tol=0.001,
# cache_size=200, class_weight=None, verbose=False, max_iter=-1, decision_function_shape='ovr', random_state=None)

# Some of methods of SVM()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/mathematical-derivation-copy-8/
# -----


# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default paramters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
#-----
# video link:
#-----


alpha = [10 ** x for x in range(-5, 3)]
cv_log_error_array = []
for i in alpha:
    print("for C =", i)
    # clf = SVC(C=i,kernel='linear',probability=True, class_weight='balanced')
    clf = SGDClassifier(class_weight='balanced', alpha=i, penalty='l2', loss='hinge', random_state=42)
    clf.fit(train_x_onehotCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_onehotCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
    print("Log Loss :", log_loss(cv_y, sig_clf_probs))

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array, c='g')
for i, txt in enumerate(np.round(cv_log_error_array, 3)):
    ax.annotate((alpha[i], str(txt)), (alpha[i], cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

best_alpha = np.argmin(cv_log_error_array)
# clf = SVC(C=i,kernel='linear',probability=True, class_weight='balanced')
clf = SGDClassifier(class_weight='balanced', alpha=alpha[best_alpha], penalty='l2', loss='hinge', random_state=42)
```

```

clf = SGDClassifier(class_weight='balanced', alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

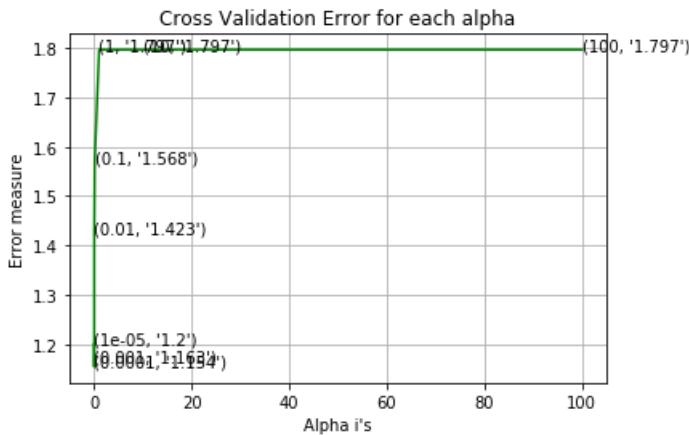
predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:", log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:", log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:", log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))
)

```

```

for C = 1e-05
Log Loss : 1.200022432660601
for C = 0.0001
Log Loss : 1.1537847496079712
for C = 0.001
Log Loss : 1.163271322088878
for C = 0.01
Log Loss : 1.4230505640831326
for C = 0.1
Log Loss : 1.5683222532351808
for C = 1
Log Loss : 1.7968875868161562
for C = 10
Log Loss : 1.7968863654915959
for C = 100
Log Loss : 1.7968864253776569

```



For values of best alpha = 0.0001 The train log loss is: 0.7799635684550152
 For values of best alpha = 0.0001 The cross validation log loss is: 1.1537847496079712
 For values of best alpha = 0.0001 The test log loss is: 1.132907306953459

Testing with best Parameter

In [151]:

```

# read more about support vector machines with linear kernels here http://scikit-learn.org/stable/modules/generated/sklearn.svm.SVC.html

# -----
# default parameters
# SVC(C=1.0, kernel='rbf', degree=3, gamma='auto', coef0=0.0, shrinking=True, probability=False, tol=0.001,
# cache_size=200, class_weight=None, verbose=False, max_iter=-1, decision_function_shape='ovr', random_state=None)

# Some of methods of SVM()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/mathematical-derivation-copy-8/
# -----

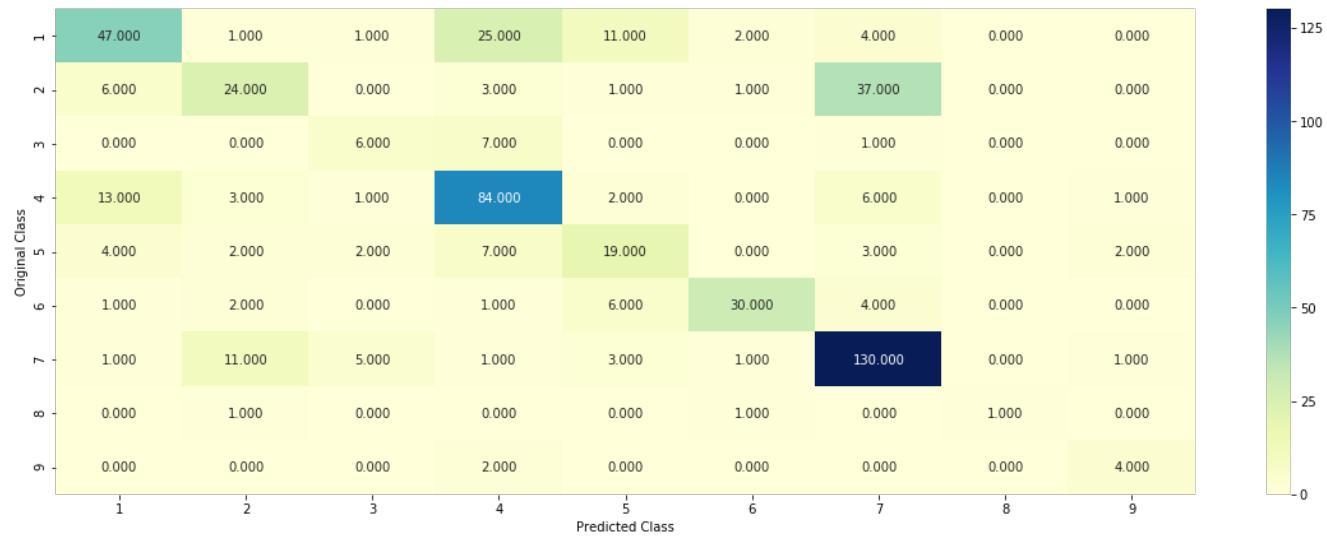
```

```
# clf = SVC(C=alpha[best_alpha],kernel='linear',probability=True, class_weight='balanced')
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='hinge', random_state=42, class_weight='balanced')
predict_and_plot_confusion_matrix(train_x_onehotCoding, train_y, cv_x_onehotCoding, cv_y, clf)
```

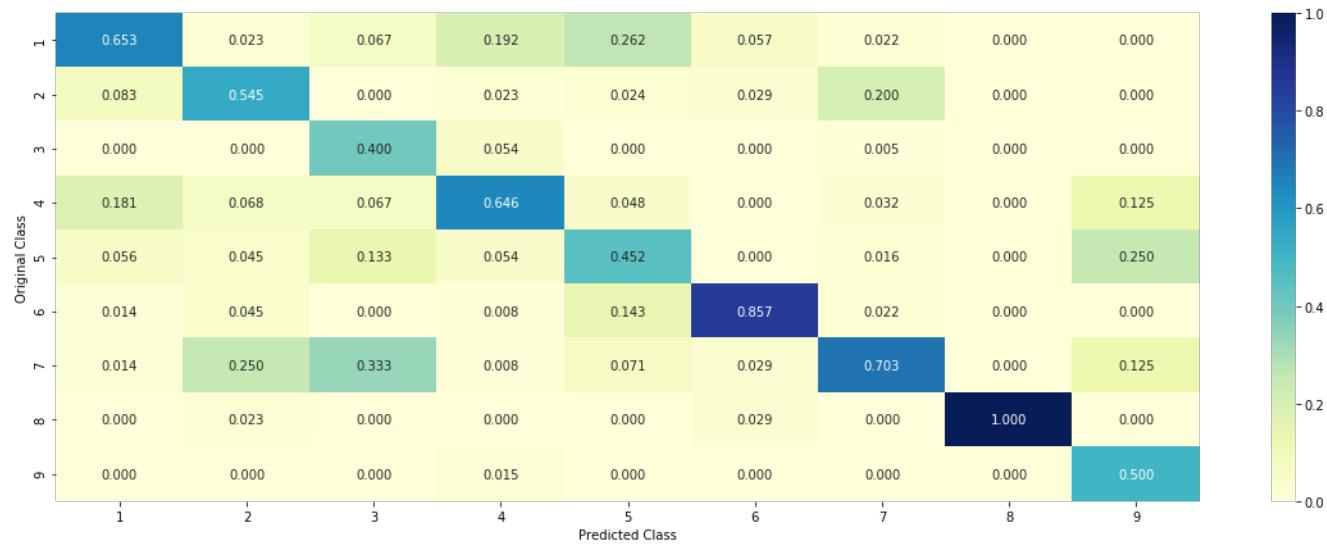
Log loss : 1.1537847496079712

Number of mis-classified points : 0.35150375939849626

----- Confusion matrix -----



----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



Random Forest

Hyperparameter tunnning with one hot encoding

In [152]:

```
# -----
# default parameters
# sklearn.ensemble.RandomForestClassifier(n_estimators=10, criterion='gini', max_depth=None, min_samples_split=2,
# min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='auto', max_leaf_nodes=None, min_impurity_decrease=0.0,
# min_impurity_split=None, bootstrap=True, oob_score=False, n_jobs=1, random_state=None, verbose=0, warm_start=False,
# class_weight=None)

# Some of methods of RandomForestClassifier()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# predict_proba (X) Perform classification on samples in X.

# some of attributes of RandomForestClassifier()
# feature_importances_ : array of shape = [n_features]
# The feature importances (the higher, the more important the feature).

# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/random-forest-and-their-construction-2/
# -----


# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default paramters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
#-----
# video link:
#-----


alpha = [100,200,500,1000,2000]
max_depth = [5, 10]
cv_log_error_array = []
for i in alpha:
    for j in max_depth:
        print("for n_estimators =", i,"and max depth = ", j)
        clf = RandomForestClassifier(n_estimators=i, criterion='gini', max_depth=j, random_state=42, n_jobs=-1)
        clf.fit(train_x_onehotCoding, train_y)
        sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
        sig_clf.fit(train_x_onehotCoding, train_y)
        sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
        cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
        print("Log Loss :",log_loss(cv_y, sig_clf_probs))

"fig, ax = plt.subplots()
features = np.dot(np.array(alpha)[ :,None],np.array(max_depth)[None]).ravel()
ax.plot(features, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[int(i/2)],max_depth[int(i%2)],str(txt), (features[i],cv_log_error_array[i])))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()
"

best_alpha = np.argmin(cv_log_error_array)
clf = RandomForestClassifier(n_estimators=alpha[int(best_alpha/2)], criterion='gini', max_depth=max_depth[int(best_alpha%2)], random_state=42, n_jobs=-1)
clf.fit(train_x_onehotCoding, train_y)
```

```

clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best estimator = ', alpha[int(best_alpha/2)], "The train log loss is:", log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best estimator = ', alpha[int(best_alpha/2)], "The cross validation log loss is:", log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print('For values of best estimator = ', alpha[int(best_alpha/2)], "The test log loss is:", log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))

```

```

for n_estimators = 100 and max depth = 5
Log Loss : 1.1875390487526534
for n_estimators = 100 and max depth = 10
Log Loss : 1.2308251103490297
for n_estimators = 200 and max depth = 5
Log Loss : 1.166966685950262
for n_estimators = 200 and max depth = 10
Log Loss : 1.2097527333949885
for n_estimators = 500 and max depth = 5
Log Loss : 1.1515278926172634
for n_estimators = 500 and max depth = 10
Log Loss : 1.2073956260100622
for n_estimators = 1000 and max depth = 5
Log Loss : 1.1484536985665699
for n_estimators = 1000 and max depth = 10
Log Loss : 1.2053132545176295
for n_estimators = 2000 and max depth = 5
Log Loss : 1.1448082055269677
for n_estimators = 2000 and max depth = 10
Log Loss : 1.2074120906790238
For values of best estimator = 2000 The train log loss is: 0.8419405597563937
For values of best estimator = 2000 The cross validation log loss is: 1.1448082055269677
For values of best estimator = 2000 The test log loss is: 1.1980821827390078

```

Testing with best parameter

In [153]:

```

# -----
# default parameters
# sklearn.ensemble.RandomForestClassifier(n_estimators=10, criterion='gini', max_depth=None, min_samples_split=2,
# min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='auto', max_leaf_nodes=None, min_impurity_decrease=0.0,
# min_impurity_split=None, bootstrap=True, oob_score=False, n_jobs=1, random_state=None, verbose=0, warm_start=False,
# class_weight=None)

# Some of methods of RandomForestClassifier()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# predict_proba (X) Perform classification on samples in X.

# some of attributes of RandomForestClassifier()
# feature_importances_ : array of shape = [n_features]
# The feature importances (the higher, the more important the feature).

# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/random-forest-and-their-construction-2/
# -----


clf = RandomForestClassifier(n_estimators=alpha[int(best_alpha/2)], criterion='gini', max_depth=max_depth[int(best_alpha%2)], random_state=42, n_jobs=-1)
predict_and_plot_confusion_matrix(train_x_onehotCoding, train_y, cv_x_onehotCoding, cv_y, clf)

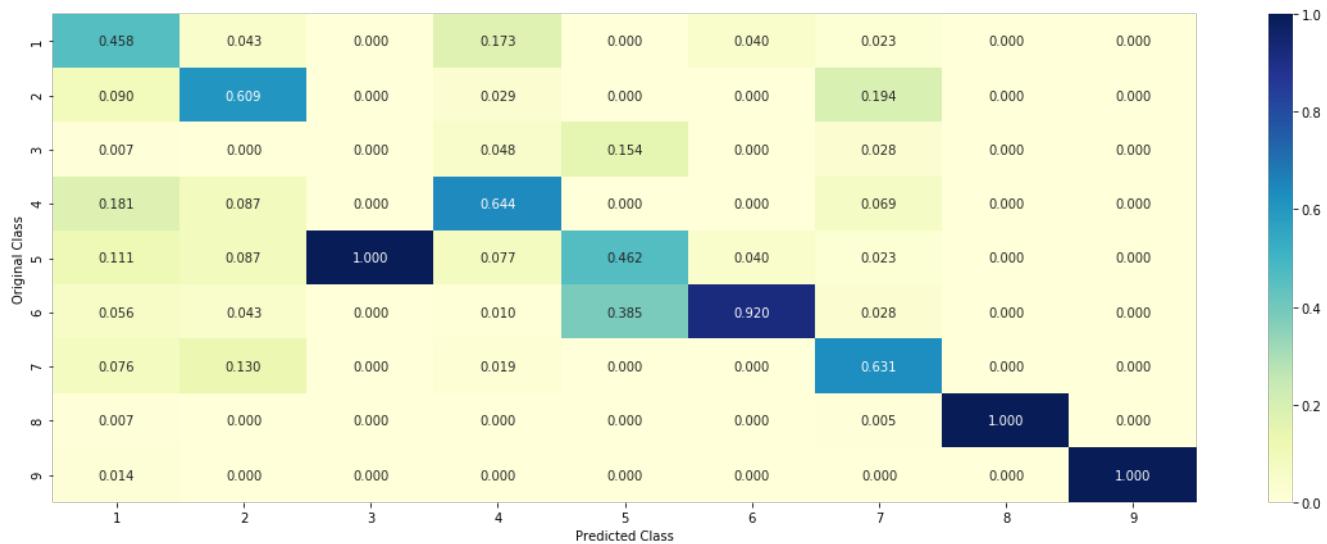
```

Log loss : 1.1448082055269677
Number of mis-classified points : 0.40225563909774437
----- Confusion matrix -----

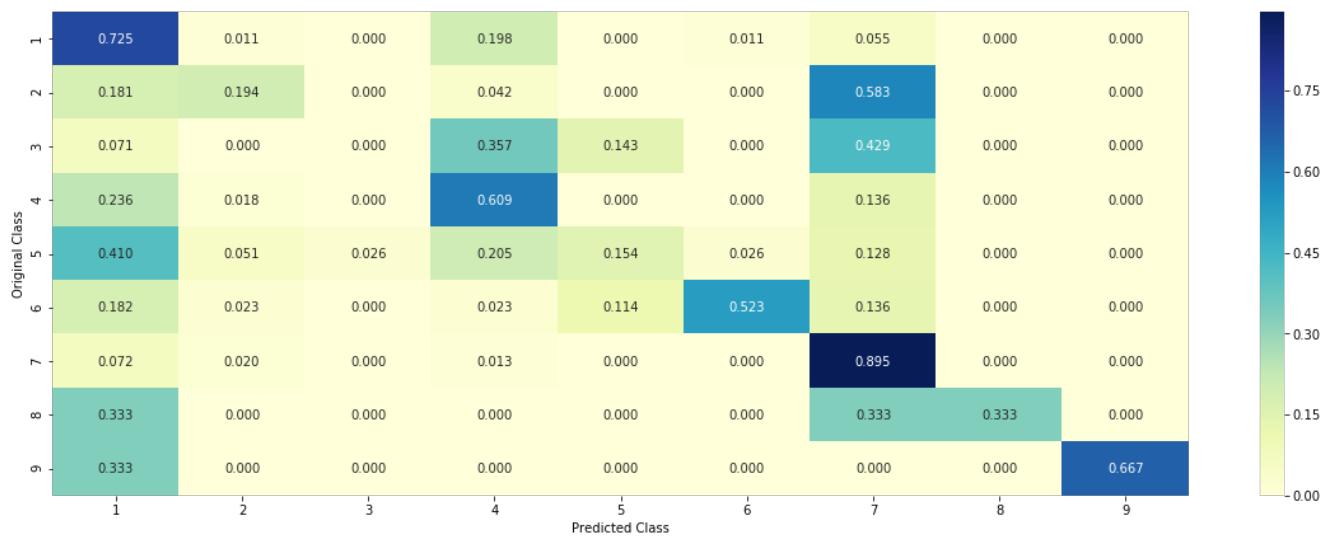
66.000	1.000	0.000	18.000	0.000	1.000	5.000	0.000	0.000
18.000	1.000	0.000	0.000	0.000	0.000	18.000	0.000	0.000



----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



Hyperparameter tuning for response encoding

In [154]:

```
# -----
# default parameters
# sklearn.ensemble.RandomForestClassifier(n_estimators=10, criterion='gini', max_depth=None, min_samples_split=2,
# # min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='auto', max_leaf_nodes=None, min_impurity_decrease=0.0,
```

```

# min_impurity_split=None, bootstrap=True, oob_score=False, n_jobs=1, random_state=None, verbose=0, warm_start=False,
# class_weight=None)

# Some of methods of RandomForestClassifier()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# predict_proba (X) Perform classification on samples in X.

# some of attributes of RandomForestClassifier()
# feature_importances_ : array of shape = [n_features]
# The feature importances (the higher, the more important the feature).

# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/random-forest-and-their-construction-2/
# -----


# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default paramters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
#
# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
#-----
# video link:
#-----


alpha = [10,50,100,200,500,1000]
max_depth = [2,3,5,10]
cv_log_error_array = []
for i in alpha:
    for j in max_depth:
        print("for n_estimators =", i,"and max depth = ", j)
        clf = RandomForestClassifier(n_estimators=i, criterion='gini', max_depth=j, random_state=42, n_jobs=-1)
        clf.fit(train_x_responseCoding, train_y)
        sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
        sig_clf.fit(train_x_responseCoding, train_y)
        sig_clf_probs = sig_clf.predict_proba(cv_x_responseCoding)
        cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
        print("Log Loss :",log_loss(cv_y, sig_clf_probs))
    ...
fig, ax = plt.subplots()
features = np.dot(np.array(alpha)[ :,None],np.array(max_depth)[None]).ravel()
ax.plot(features, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[int(i/4)],max_depth[int(i/4)],str(txt)), (features[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()
"""

best_alpha = np.argmin(cv_log_error_array)
clf = RandomForestClassifier(n_estimators=alpha[int(best_alpha/4)], criterion='gini', max_depth=max_depth[int(best_alpha%4)], random_state=42, n_jobs=-1)
clf.fit(train_x_responseCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_responseCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_responseCoding)
print('For values of best alpha = ', alpha[int(best_alpha/4)], "The train log loss is:",log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_responseCoding)
print('For values of best alpha = ', alpha[int(best_alpha/4)], "The cross validation log loss is:",log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_responseCoding)
print('For values of best alpha = ', alpha[int(best_alpha/4)], "The test log loss is:",log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))

for n_estimators = 10 and max depth = 2
Log Loss : 2.1875850497550706

```

```

Log Loss : 2.1073333437333700
for n_estimators = 10 and max depth = 3
Log Loss : 1.7474028602194789
for n_estimators = 10 and max depth = 5
Log Loss : 1.7689363746298385
for n_estimators = 10 and max depth = 10
Log Loss : 2.0769438011661174
for n_estimators = 50 and max depth = 2
Log Loss : 1.7606121192525375
for n_estimators = 50 and max depth = 3
Log Loss : 1.511236885032755
for n_estimators = 50 and max depth = 5
Log Loss : 1.5484103731607668
for n_estimators = 50 and max depth = 10
Log Loss : 1.8476208704294077
for n_estimators = 100 and max depth = 2
Log Loss : 1.6130519827601555
for n_estimators = 100 and max depth = 3
Log Loss : 1.5279011986245439
for n_estimators = 100 and max depth = 5
Log Loss : 1.3842223949751662
for n_estimators = 100 and max depth = 10
Log Loss : 1.8024983328726145
for n_estimators = 200 and max depth = 2
Log Loss : 1.7209790320844593
for n_estimators = 200 and max depth = 3
Log Loss : 1.5758185871754435
for n_estimators = 200 and max depth = 5
Log Loss : 1.4177165724965561
for n_estimators = 200 and max depth = 10
Log Loss : 1.7569902991958692
for n_estimators = 500 and max depth = 2
Log Loss : 1.7480467887065991
for n_estimators = 500 and max depth = 3
Log Loss : 1.6638968713978974
for n_estimators = 500 and max depth = 5
Log Loss : 1.465189999234827
for n_estimators = 500 and max depth = 10
Log Loss : 1.7753452808327248
for n_estimators = 1000 and max depth = 2
Log Loss : 1.7376333164600735
for n_estimators = 1000 and max depth = 3
Log Loss : 1.6635789606438813
for n_estimators = 1000 and max depth = 5
Log Loss : 1.4428382897517655
for n_estimators = 1000 and max depth = 10
Log Loss : 1.7441116971158266
For values of best alpha = 100 The train log loss is: 0.051908540199266662
For values of best alpha = 100 The cross validation log loss is: 1.3842223949751662
For values of best alpha = 100 The test log loss is: 1.3945578346057126

```

Testing with best parameter with response encoding

In [155]:

```

# -----
# default parameters
# sklearn.ensemble.RandomForestClassifier(n_estimators=10, criterion='gini', max_depth=None, min_samples_split=2,
# min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='auto', max_leaf_nodes=None, min_impurity_decrease=0.0,
# min_impurity_split=None, bootstrap=True, oob_score=False, n_jobs=1, random_state=None, verbose=0, warm_start=False,
# class_weight=None)

# Some of methods of RandomForestClassifier()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# predict_proba (X) Perform classification on samples in X.

# some of attributes of RandomForestClassifier()
# feature_importances_ : array of shape = [n_features]
# The feature importances (the higher, the more important the feature).

# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/random-forest-and-their-construction-2/
# -----

```

```

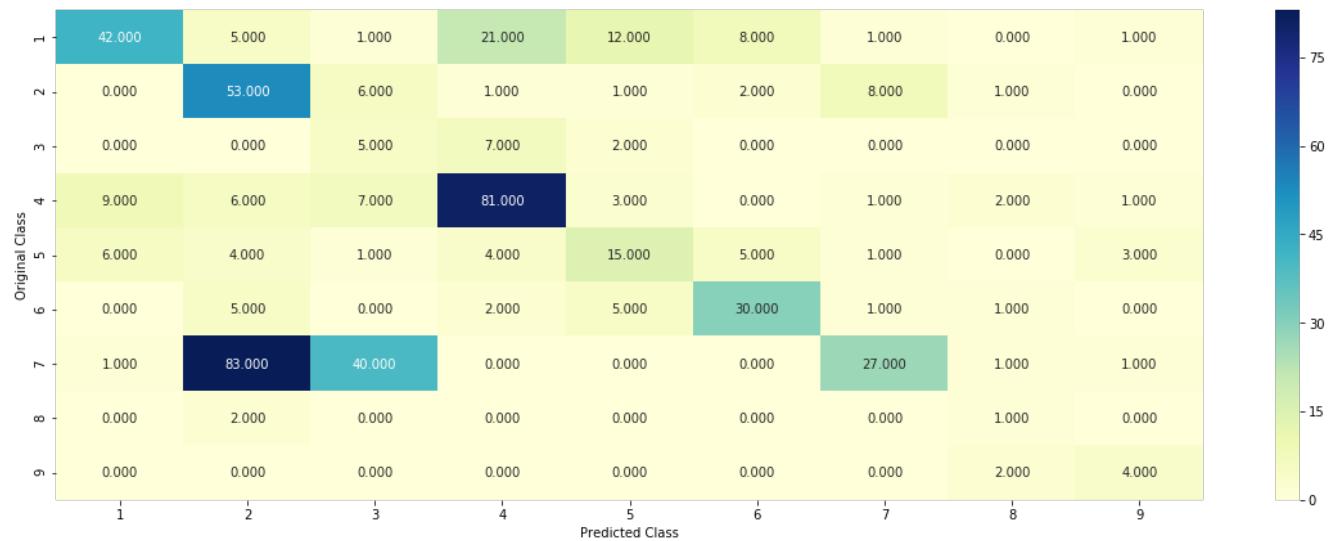
clf = RandomForestClassifier(max_depth=max_depth[int(best_alpha%4)], n_estimators=alpha[int(best_alpha/4)], criterion='gini', max_features='auto', random_state=42)
predict_and_plot_confusion_matrix(train_x_responseCoding, train_y, cv_x_responseCoding, cv_y, clf)

```

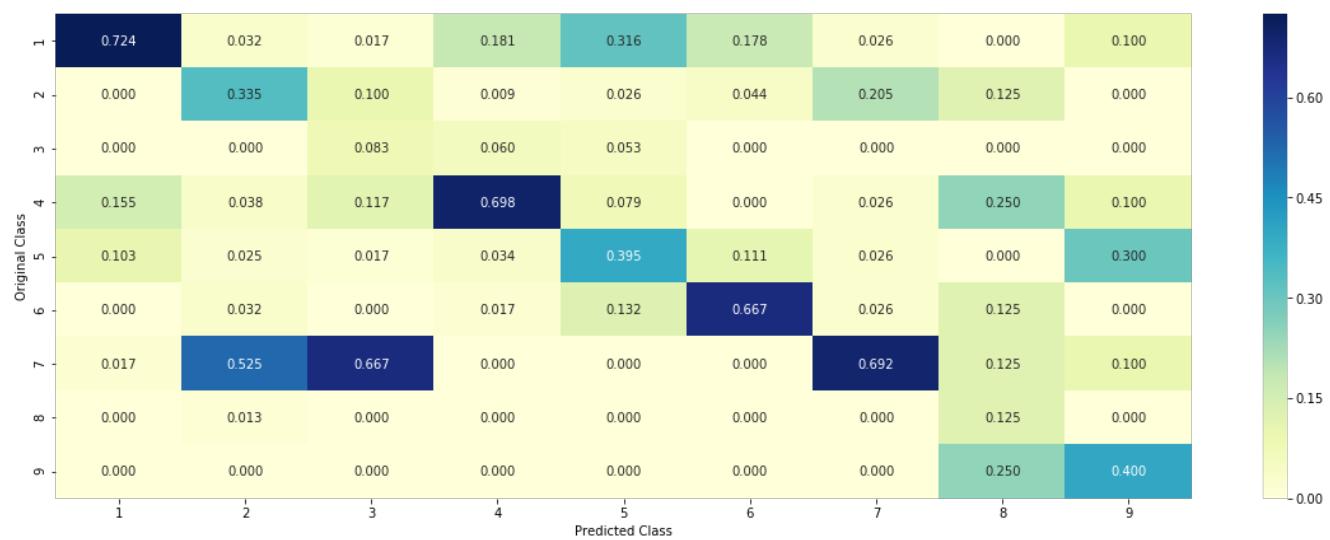
Log loss : 1.3842223949751662

Number of mis-classified points : 0.5150375939849624

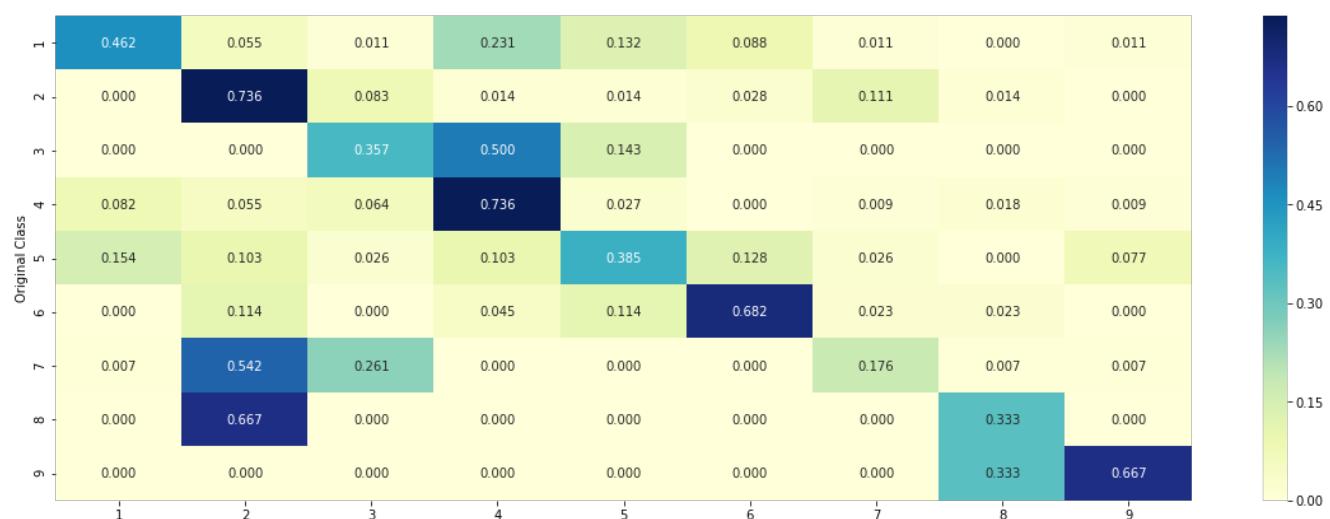
----- Confusion matrix -----



----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



Stacking model

Hyperparameter tunning

In [156]:

```
# read more about SGDClassifier() at http://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

#-----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/geometric-intuition-1/
#-----


# read more about support vector machines with linear kernels here http://scikit-learn.org/stable/modules/generated/sklearn.svm.SVC.html
# -----
# default parameters
# SVC(C=1.0, kernel='rbf', degree=3, gamma='auto', coef0=0.0, shrinking=True, probability=False, tol=0.001,
# cache_size=200, class_weight=None, verbose=False, max_iter=-1, decision_function_shape='ovr', random_state=None)

# Some of methods of SVM()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/mathematical-derivation-copy-8/
# -----


# read more about support vector machines with linear kernels here http://scikit-learn.org/stable/modules/generated/sklearn.ensemble.RandomForestClassifier.html
# -----
# default parameters
# sklearn.ensemble.RandomForestClassifier(n_estimators=10, criterion='gini', max_depth=None, min_samples_split=2,
# min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features='auto', max_leaf_nodes=None, min_impurity_decrease=0.0,
# min_impurity_split=None, bootstrap=True, oob_score=False, n_jobs=1, random_state=None, verbose=0, warm_start=False,
# class_weight=None)

# Some of methods of RandomForestClassifier()
# fit(X, y, [sample_weight]) Fit the SVM model according to the given training data.
# predict(X) Perform classification on samples in X.
# predict_proba (X) Perform classification on samples in X.

# some of attributes of RandomForestClassifier()
# feature_importances_ : array of shape = [n_features]
# The feature importances (the higher, the more important the feature).

# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/random-forest-and-their-construction-2/
# -----


clf1 = SGDClassifier(alpha=0.001, penalty='l2', loss='log', class_weight='balanced', random_state=0)
clf1.fit(train_x_onehotCoding, train_y)
sig_clf1 = CalibratedClassifierCV(clf1, method="sigmoid")

clf2 = SGDClassifier(alpha=1, penalty='l2', loss='hinge', class_weight='balanced', random_state=0)
clf2.fit(train_x_onehotCoding, train_y)
sig_clf2 = CalibratedClassifierCV(clf2, method="sigmoid")

clf3 = MultinomialNB(alpha=0.001)
clf3.fit(train_x_onehotCoding, train_y)
sig_clf3 = CalibratedClassifierCV(clf3, method="sigmoid")
```

```

sig_clf = CalibratedClassifierCV(clfs, method= Sigmoid )

sig_clf1.fit(train_x_onehotCoding, train_y)
print("Logistic Regression : Log Loss: %0.2f" % (log_loss(cv_y, sig_clf1.predict_proba(cv_x_onehotCoding))))
sig_clf2.fit(train_x_onehotCoding, train_y)
print("Support vector machines : Log Loss: %0.2f" % (log_loss(cv_y, sig_clf2.predict_proba(cv_x_onehotCoding))))
sig_clf3.fit(train_x_onehotCoding, train_y)
print("Naive Bayes : Log Loss: %0.2f" % (log_loss(cv_y, sig_clf3.predict_proba(cv_x_onehotCoding))))
print("-"*50)
alpha = [0.0001,0.001,0.01,0.1,1,10]
best_alpha = 999
for i in alpha:
    lr = LogisticRegression(C=i)
    scfl = StackingClassifier(classifiers=[sig_clf1, sig_clf2, sig_clf3], meta_classifier=lr, use_probas=True)
    scfl.fit(train_x_onehotCoding, train_y)
    print("Stacking Classifier : for the value of alpha: %f Log Loss: %0.3f" % (i, log_loss(cv_y, scfl.predict_proba(cv_x_onehotCoding))))
)
log_error = log_loss(cv_y, scfl.predict_proba(cv_x_onehotCoding))
if best_alpha > log_error:
    best_alpha = log_error

```

Logistic Regression : Log Loss: 0.98
 Support vector machines : Log Loss: 1.80
 Naive Bayes : Log Loss: 1.12

Stacking Classifier : for the value of alpha: 0.000100 Log Loss: 2.178
 Stacking Classifier : for the value of alpha: 0.001000 Log Loss: 2.038
 Stacking Classifier : for the value of alpha: 0.010000 Log Loss: 1.519
 Stacking Classifier : for the value of alpha: 0.100000 Log Loss: 1.082
 Stacking Classifier : for the value of alpha: 1.000000 Log Loss: 1.000
 Stacking Classifier : for the value of alpha: 10.000000 Log Loss: 1.050

Testing the best hyperparameter

In [157]:

```

lr = LogisticRegression(C=0.1)
scfl = StackingClassifier(classifiers=[sig_clf1, sig_clf2, sig_clf3], meta_classifier=lr, use_probas=True)
scfl.fit(train_x_onehotCoding, train_y)

log_error = log_loss(train_y, scfl.predict_proba(train_x_onehotCoding))
print("Log loss (train) on the stacking classifier :",log_error)

log_error = log_loss(cv_y, scfl.predict_proba(cv_x_onehotCoding))
print("Log loss (CV) on the stacking classifier :",log_error)

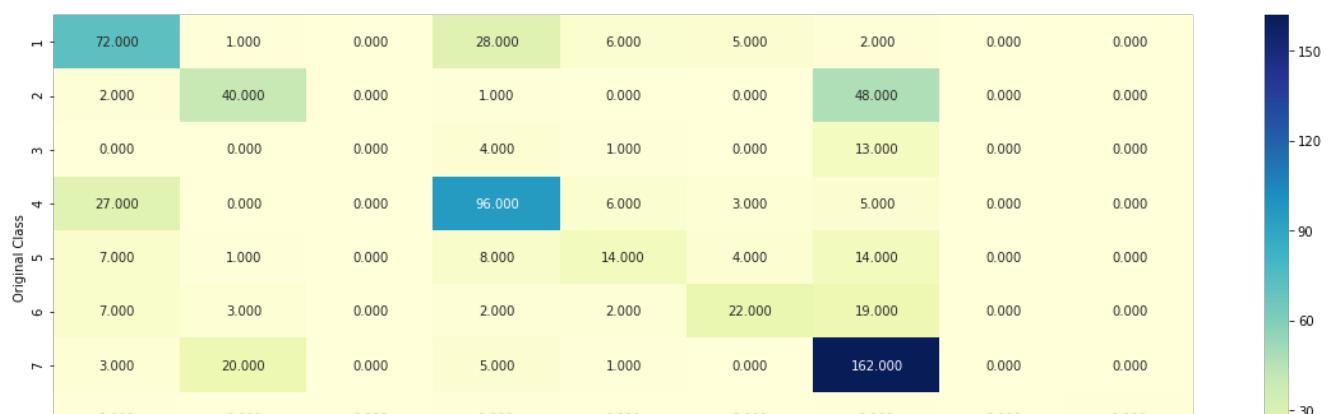
log_error = log_loss(test_y, scfl.predict_proba(test_x_onehotCoding))
print("Log loss (test) on the stacking classifier :",log_error)

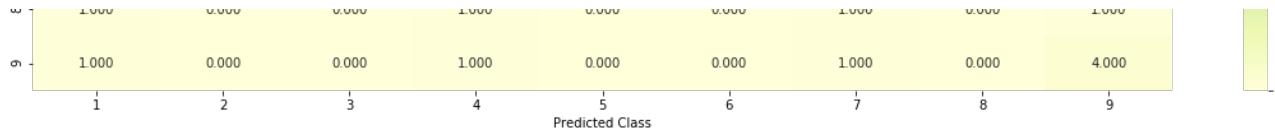
print("Number of missclassified point :", np.count_nonzero((scfl.predict(test_x_onehotCoding)- test_y))/test_y.shape[0])
plot_confusion_matrix(test_y=test_y, predict_y=scfl.predict(test_x_onehotCoding))

```

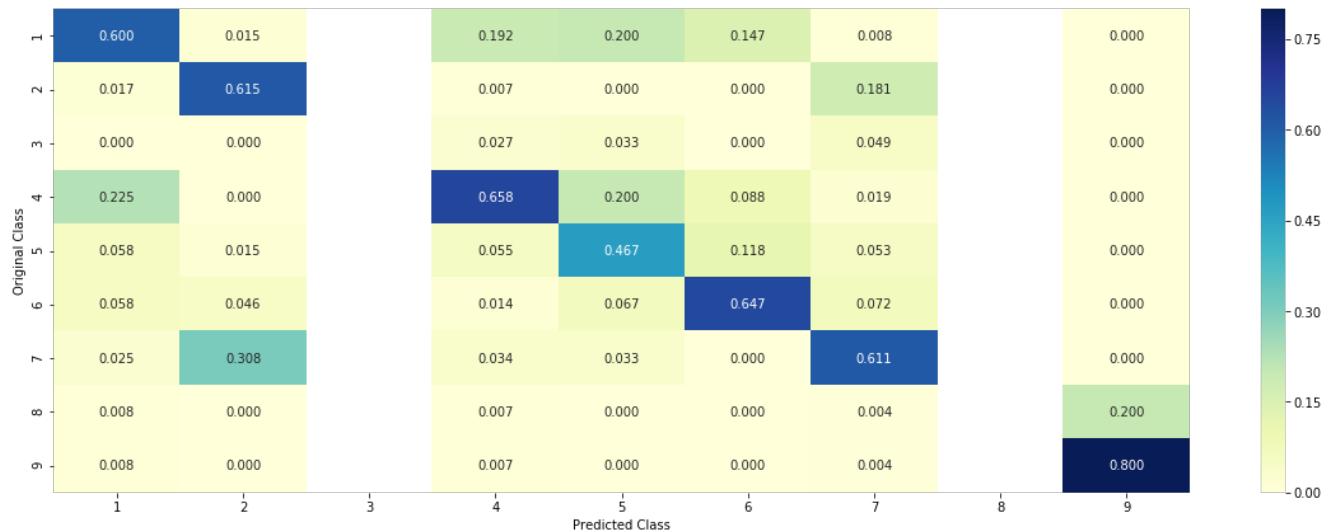
Log loss (train) on the stacking classifier : 1.0594283349468003
 Log loss (CV) on the stacking classifier : 1.0823135650621627
 Log loss (test) on the stacking classifier : 1.15853069599996415
 Number of missclassified point : 0.38345864661654133

----- Confusion matrix -----

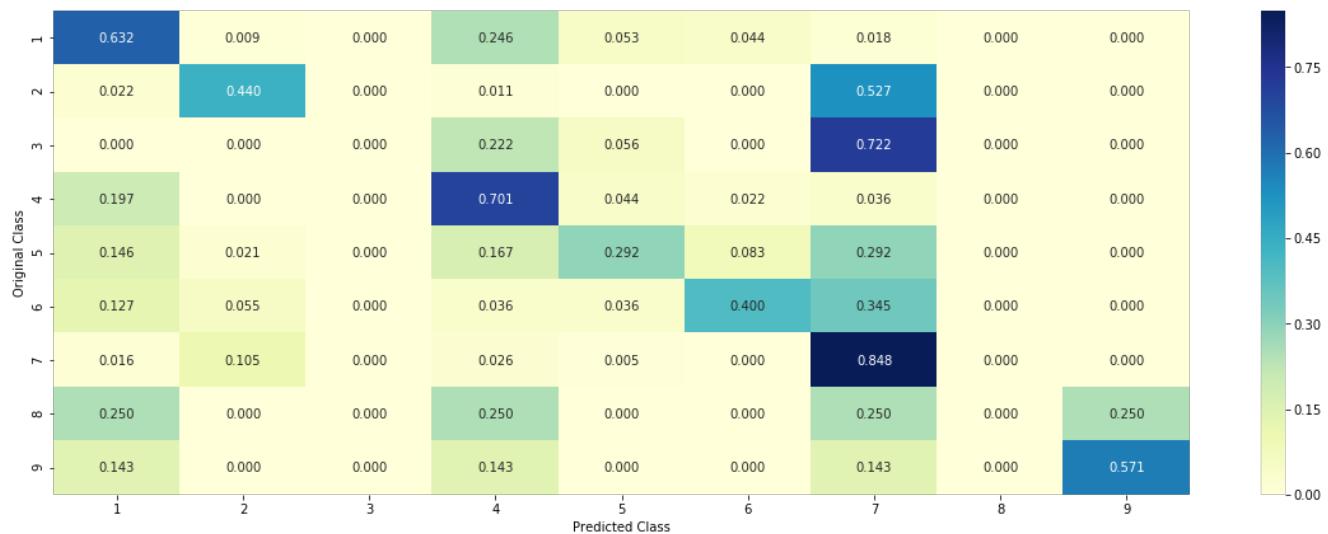




----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



Voting Classifier

In [158]:

```
#Refer:http://scikit-learn.org/stable/modules/generated/sklearn.ensemble.VotingClassifier.html
from sklearn.ensemble import VotingClassifier
vclf = VotingClassifier(estimators=[('lr', sig_clf1), ('svc', sig_clf2), ('rf', sig_clf3)], voting='soft')
vclf.fit(train_x_onehotCoding, train_y)
print("Log loss (train) on the VotingClassifier :", log_loss(train_y, vclf.predict_proba(train_x_onehotCoding)))
print("Log loss (CV) on the VotingClassifier :", log_loss(cv_y, vclf.predict_proba(cv_x_onehotCoding)))
print("Log loss (test) on the VotingClassifier :", log_loss(test_y, vclf.predict_proba(test_x_onehotCoding)))
print("Number of missclassified point :", np.count_nonzero((vclf.predict(test_x_onehotCoding)- test_y)/test_y.shape[0]))
plot_confusion_matrix(test_y=test_y, predict_y=vclf.predict(test_x_onehotCoding))
```

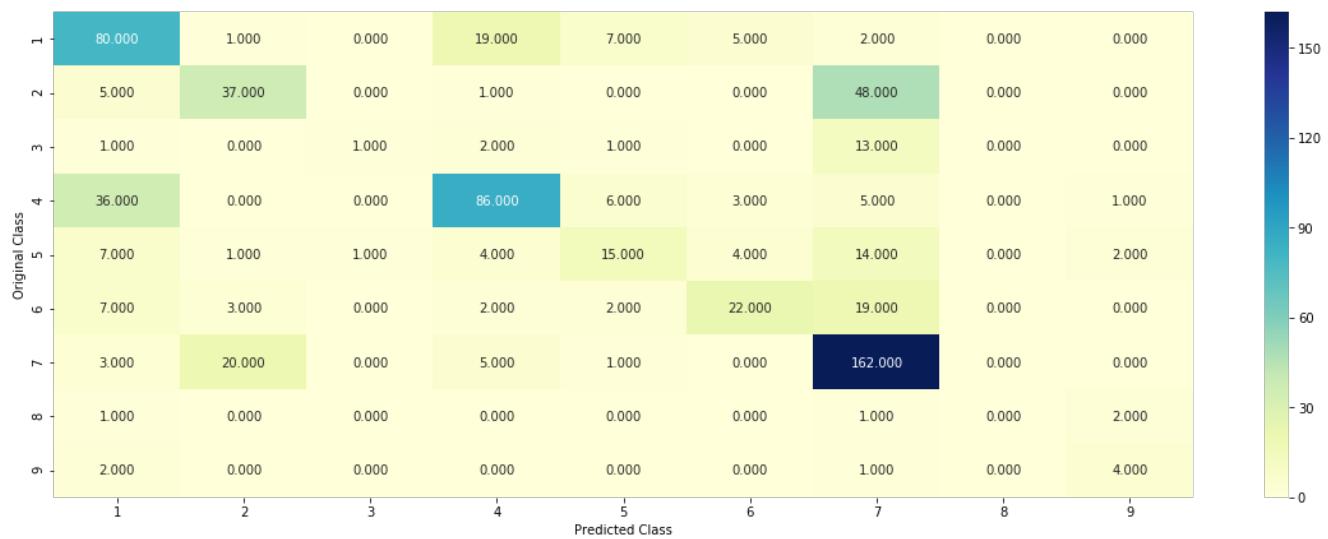
Log loss (train) on the VotingClassifier : 1.0878623426468812

Log loss (CV) on the VotingClassifier : 1.1355349757748325

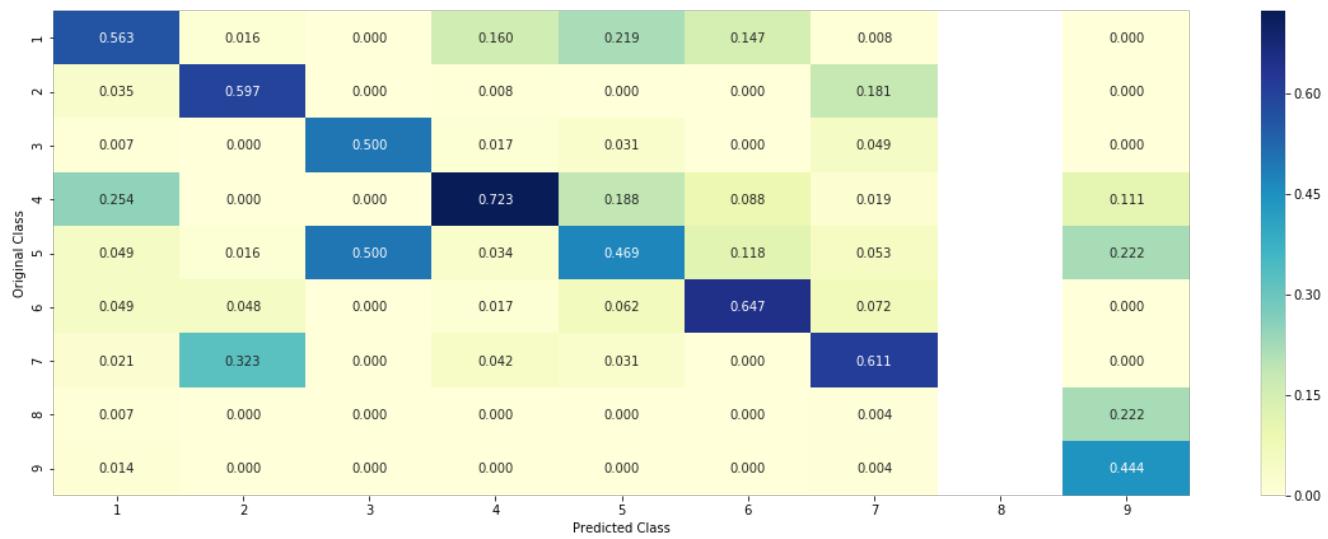
Log loss (test) on the VotingClassifier : 1.2030920917705534

Number of missclassified point : 0.3879699248120301

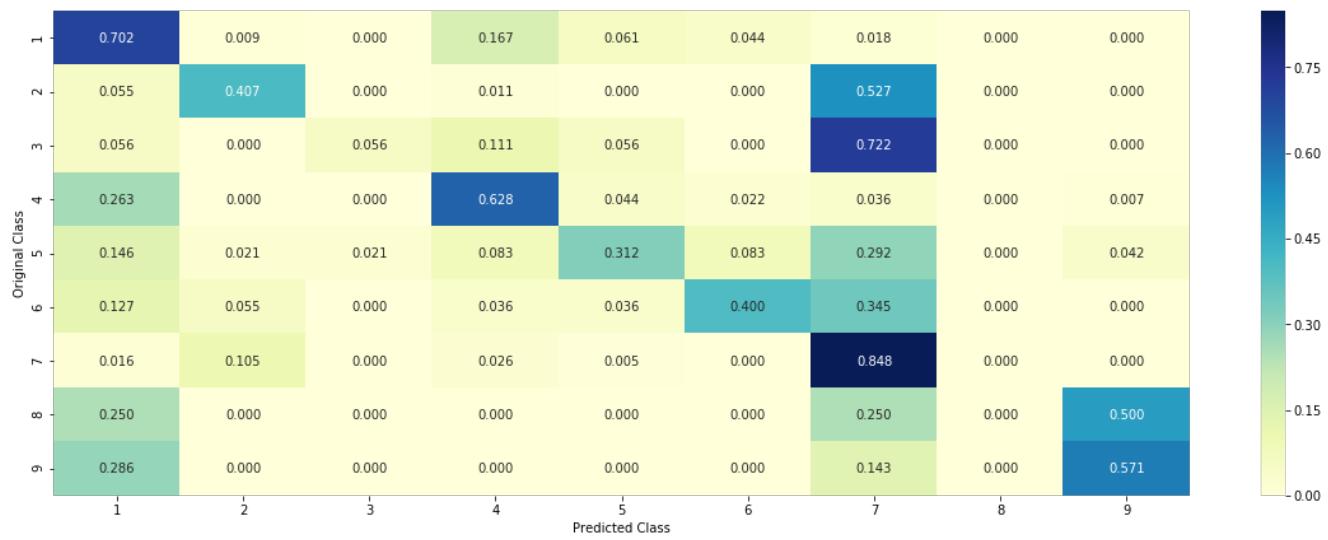
----- Confusion matrix -----



----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



Task-3 Apply Logistic regression with CountVectorizer Features, including both unigrams and bigrams

In [0]:

```

text_vectorizer = CountVectorizer(ngram_range=(1,2))
train_text_feature_onehotCoding = text_vectorizer.fit_transform(train_df['TEXT'])

# don't forget to normalize every feature
train_text_feature_onehotCoding = normalize(train_text_feature_onehotCoding, axis=0)

# we use the same vectorizer that was trained on train data
test_text_feature_onehotCoding = text_vectorizer.transform(test_df['TEXT'])
# don't forget to normalize every feature
test_text_feature_onehotCoding = normalize(test_text_feature_onehotCoding, axis=0)

# we use the same vectorizer that was trained on train data
cv_text_feature_onehotCoding = text_vectorizer.transform(cv_df['TEXT'])
# don't forget to normalize every feature
cv_text_feature_onehotCoding = normalize(cv_text_feature_onehotCoding, axis=0)

```

stacking the data

In [0]:

```

train_gene_var_onehotCoding = hstack((train_gene_feature_onehotCoding, train_variation_feature_onehotCoding))
test_gene_var_onehotCoding = hstack((test_gene_feature_onehotCoding, test_variation_feature_onehotCoding))
cv_gene_var_onehotCoding = hstack((cv_gene_feature_onehotCoding, cv_variation_feature_onehotCoding))

train_x_onehotCoding = hstack((train_gene_var_onehotCoding, train_text_feature_onehotCoding)).tocsr()
train_y = np.array(list(train_df['Class']))

test_x_onehotCoding = hstack((test_gene_var_onehotCoding, test_text_feature_onehotCoding)).tocsr()
test_y = np.array(list(test_df['Class']))

cv_x_onehotCoding = hstack((cv_gene_var_onehotCoding, cv_text_feature_onehotCoding)).tocsr()
cv_y = np.array(list(cv_df['Class']))

train_gene_var_responseCoding = np.hstack((train_gene_feature_responseCoding, train_variation_feature_responseCoding))
test_gene_var_responseCoding = np.hstack((test_gene_feature_responseCoding, test_variation_feature_responseCoding))
cv_gene_var_responseCoding = np.hstack((cv_gene_feature_responseCoding, cv_variation_feature_responseCoding))

train_x_responseCoding = np.hstack((train_gene_var_responseCoding, train_text_feature_responseCoding))
test_x_responseCoding = np.hstack((test_gene_var_responseCoding, test_text_feature_responseCoding))
cv_x_responseCoding = np.hstack((cv_gene_var_responseCoding, cv_text_feature_responseCoding))

```

Logistic regression

With class balance

In [137]:

```

# read more about SGDClassifier() at http://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

#-----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/geometric-intuition-1/
#-----

# find more about CalibratedClassifierCV here at http://scikit-learn.org/stable/modules/generated/sklearn.calibration.CalibratedClassifierCV.html
# -----
# default paramters
# sklearn.calibration.CalibratedClassifierCV(base_estimator=None, method='sigmoid', cv=3)
# 
```

```

# some of the methods of CalibratedClassifierCV()
# fit(X, y[, sample_weight]) Fit the calibrated model
# get_params([deep]) Get parameters for this estimator.
# predict(X) Predict the target of new samples.
# predict_proba(X) Posterior probabilities of classification
#-----
# video link:
#-----

alpha = [10 ** x for x in range(-6, 3)]
cv_log_error_array = []
for i in alpha:
    print("for alpha =", i)
    clf = SGDClassifier(class_weight='balanced', alpha=i, penalty='l2', loss='log', random_state=42)
    clf.fit(train_x_onehotCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_onehotCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
    # to avoid rounding error while multiplying probabilities we use log-probability estimates
    print("Log Loss :", log_loss(cv_y, sig_clf_probs))

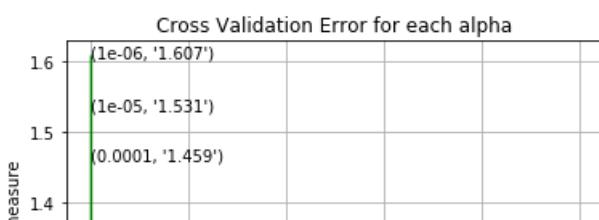
fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array, c='g')
for i, txt in enumerate(np.round(cv_log_error_array, 3)):
    ax.annotate((alpha[i], str(txt)), (alpha[i], cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

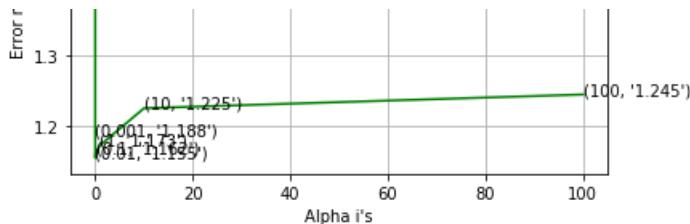
best_alpha = np.argmin(cv_log_error_array)
clf = SGDClassifier(class_weight='balanced', alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:", log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:", log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:", log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))
)

```

for alpha = 1e-06
Log Loss : 1.6071527655605617
for alpha = 1e-05
Log Loss : 1.5305677804179165
for alpha = 0.0001
Log Loss : 1.4590367170406684
for alpha = 0.001
Log Loss : 1.187889303866438
for alpha = 0.01
Log Loss : 1.1545282829563328
for alpha = 0.1
Log Loss : 1.162115117107123
for alpha = 1
Log Loss : 1.1725589018693636
for alpha = 10
Log Loss : 1.2253404973885411
for alpha = 100
Log Loss : 1.2449420841990706





For values of best alpha = 0.01 The train log loss is: 0.6042112197277182
 For values of best alpha = 0.01 The cross validation log loss is: 1.1545282829563328
 For values of best alpha = 0.01 The test log loss is: 1.1904532151094178

Testing on best parameter

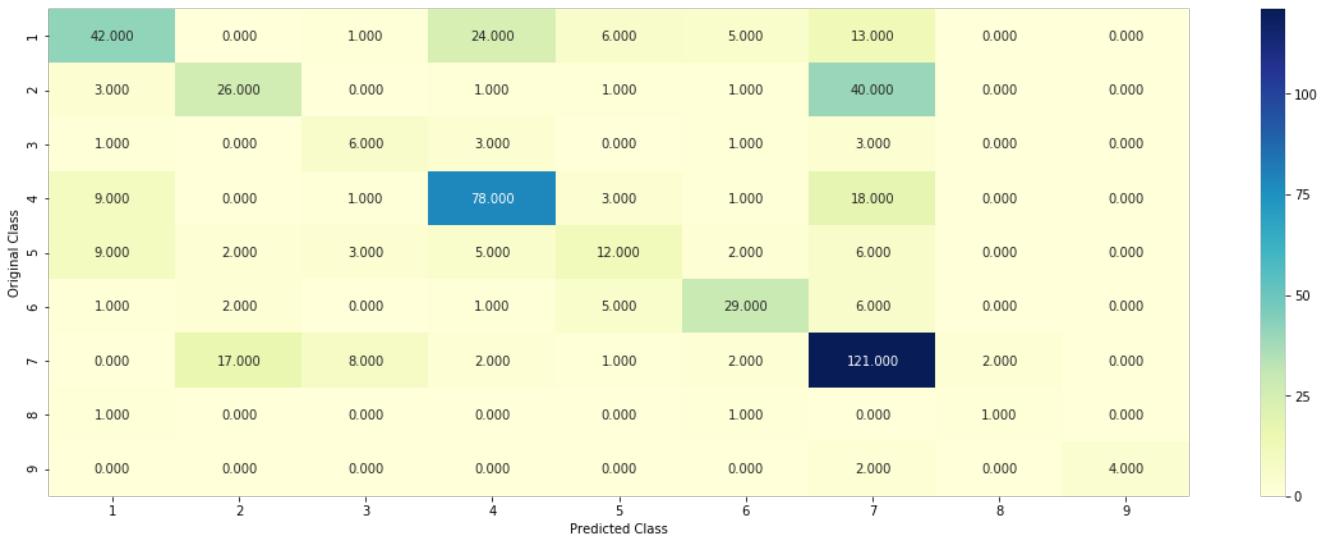
In [138]:

```
# read more about SGDClassifier() at http://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

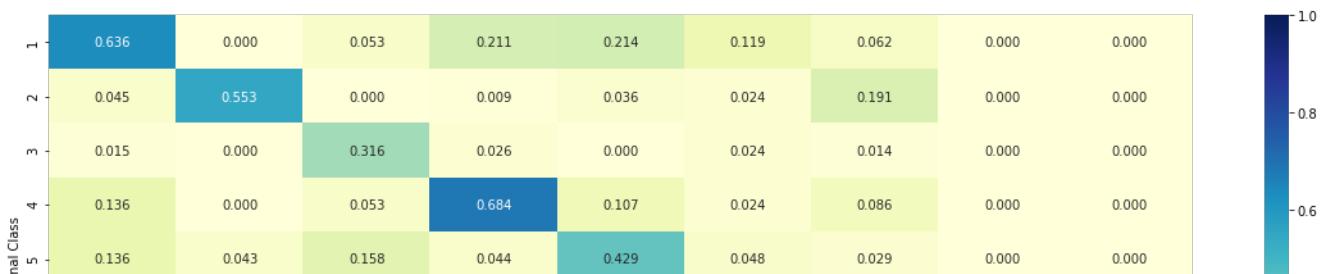
# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

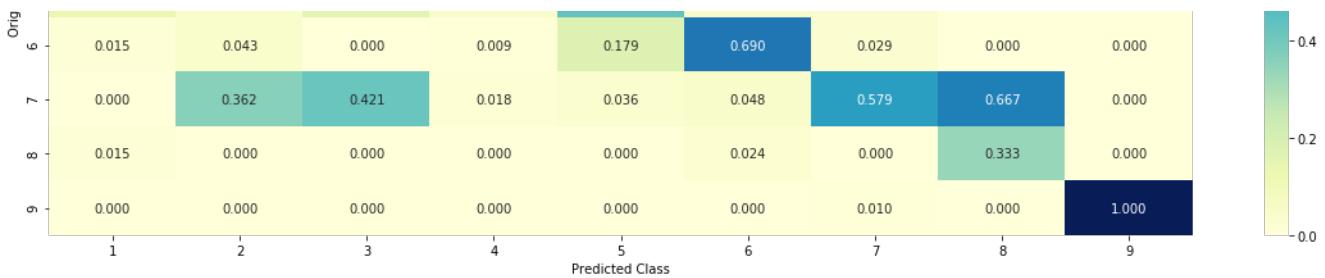
#-----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/geometric-intuition-1/
#-----
clf = SGDClassifier(class_weight='balanced', alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
predict_and_plot_confusion_matrix(train_x_onehotCoding, train_y, cv_x_onehotCoding, cv_y, clf)
```

Log loss : 1.1545282829563328
 Number of mis-classified points : 0.40037593984962405
 ----- Confusion matrix -----

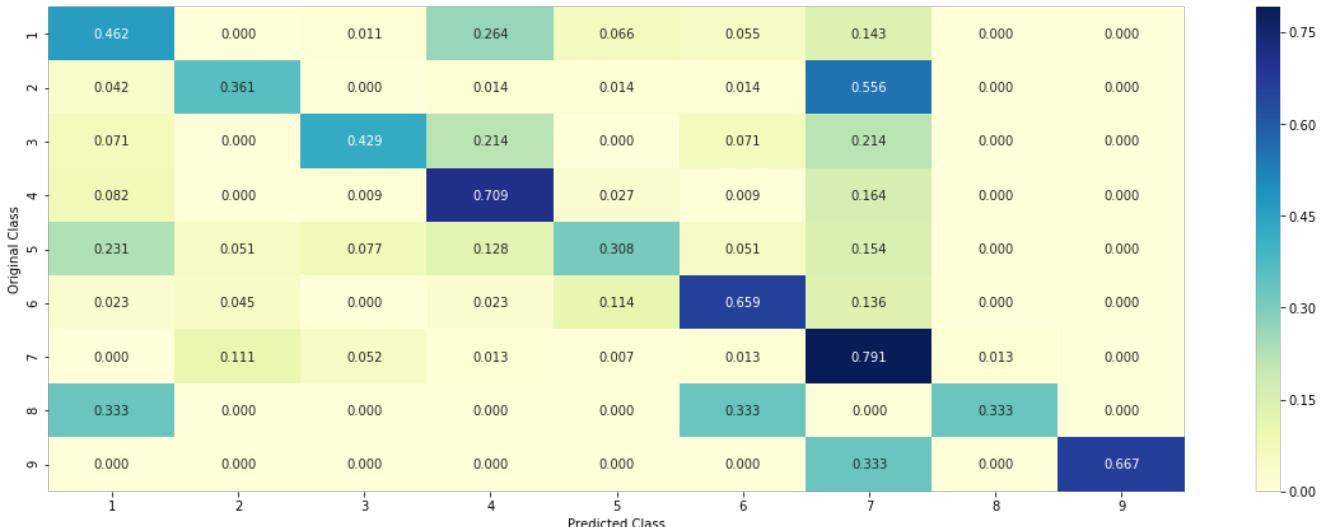


----- Precision matrix (Column Sum=1) -----





----- Recall matrix (Row sum=1) -----



Without class balance

In [161]:

```

alpha = [10 ** x for x in range(-6, 3)]
cv_log_error_array = []
for i in alpha:
    print("for alpha =", i)
    clf = SGDClassifier(alpha=i, penalty='l2', loss='log', random_state=42)
    clf.fit(train_x_onehotCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_onehotCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
    # to avoid rounding error while multiplying probabilities we use log-probability estimates
    print("Log Loss :",log_loss(cv_y, sig_clf_probs))

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[i],str(txt)), (alpha[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

best_alpha = np.argmin(cv_log_error_array)
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:",log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:",log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))

```

```

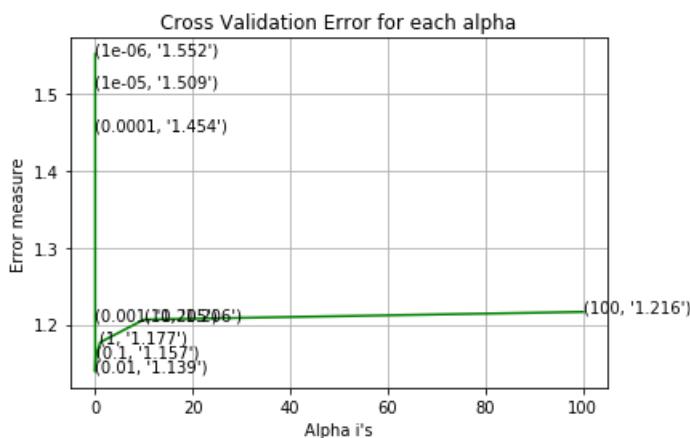
eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print("For values of best alpha = ", alpha[best_alpha], "The test log loss is:", log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15)
)

```

```

for alpha = 1e-06
Log Loss : 1.5518795396113116
for alpha = 1e-05
Log Loss : 1.508917335534443
for alpha = 0.0001
Log Loss : 1.4537720832778722
for alpha = 0.001
Log Loss : 1.2049885054291753
for alpha = 0.01
Log Loss : 1.138568239839555
for alpha = 0.1
Log Loss : 1.1568972773481605
for alpha = 1
Log Loss : 1.176699544822428
for alpha = 10
Log Loss : 1.2063532164035349
for alpha = 100
Log Loss : 1.2163023375497477

```



```

For values of best alpha = 0.01 The train log loss is: 0.6021243492646235
For values of best alpha = 0.01 The cross validation log loss is: 1.138568239839555
For values of best alpha = 0.01 The test log loss is: 1.1942480019175121

```

Testing with best parameter

In [162]:

```

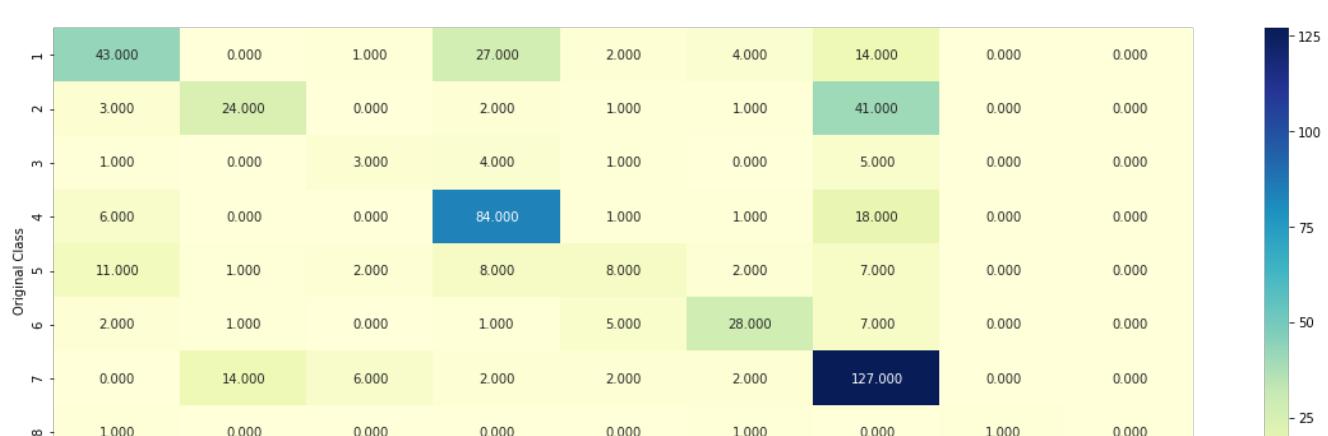
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
predict_and_plot_confusion_matrix(train_x_onehotCoding, train_y, cv_x_onehotCoding, cv_y, clf)

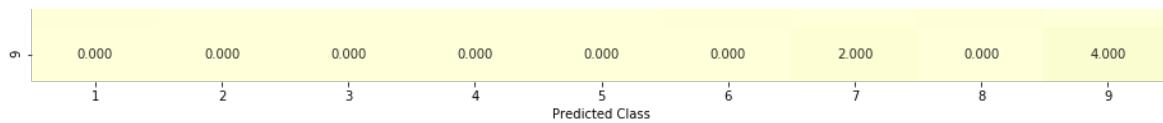
```

```

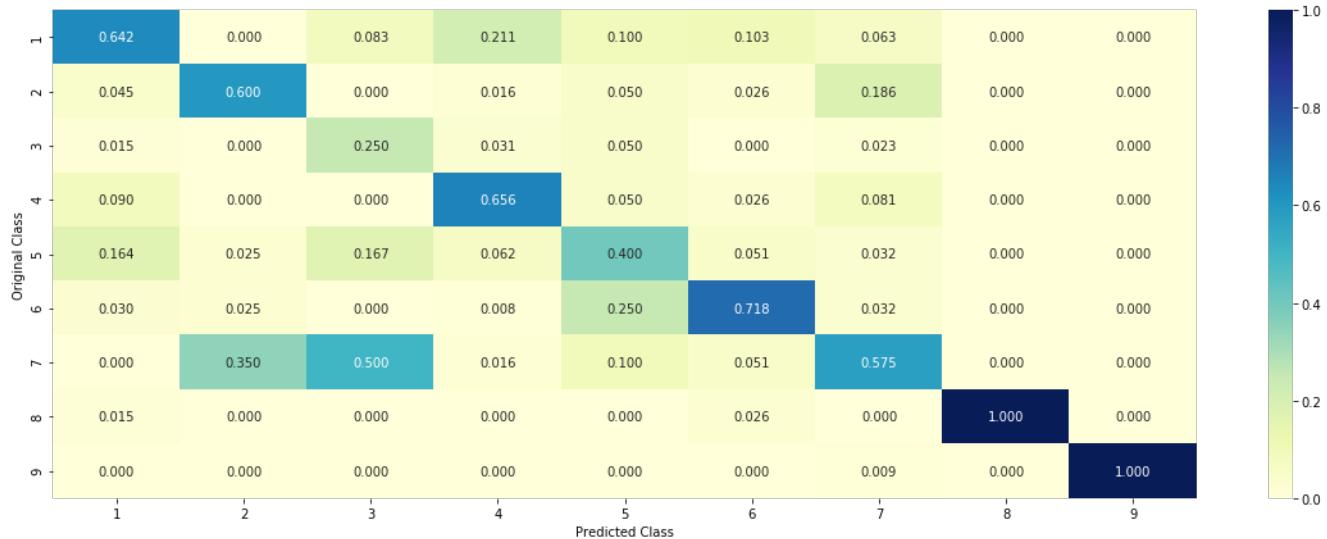
Log loss : 1.138568239839555
Number of mis-classified points : 0.39473684210526316
----- Confusion matrix -----

```

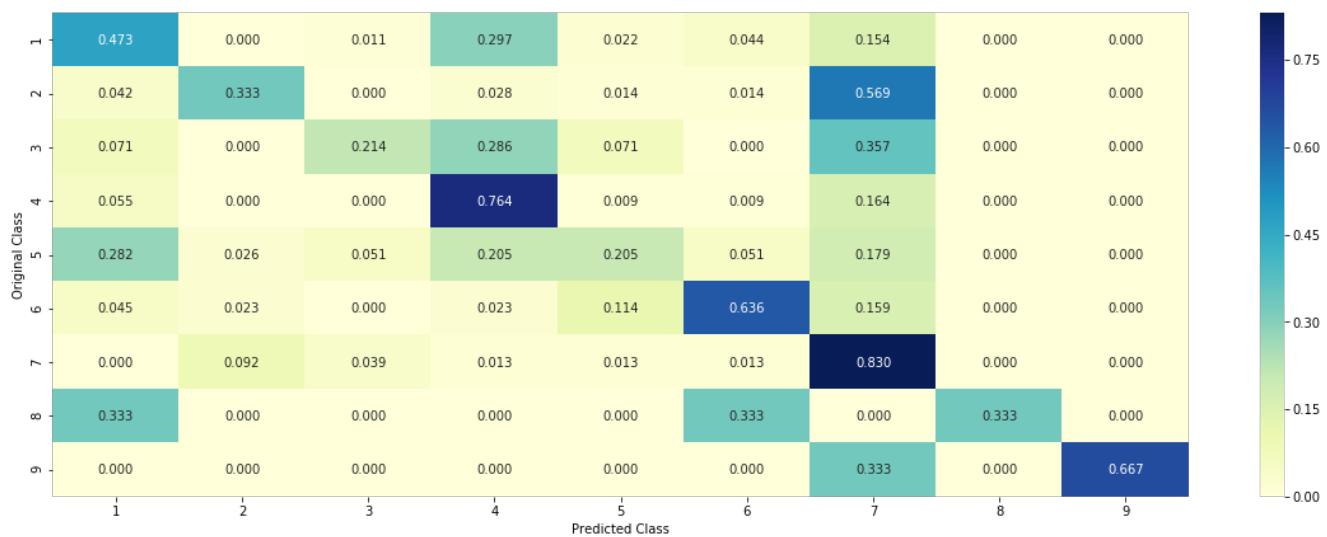




----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



Task-4 Try any of the feature engineering techniques discussed in the course to reduce the CV and test log-loss to a value less than 1.

In [27]:

```
# building a CountVectorizer with all the words that occured minimum 3 times in train data
text_vectorizer = TfidfVectorizer(min_df = 3, ngram_range = (1,2), max_features=1000)
train_text_feature_onehotCoding = text_vectorizer.fit_transform(train_df['TEXT'])

# getting all the feature names (words)
train_text_features= text_vectorizer.get_feature_names()

# train_text_feature_onehotCoding.sum(axis=0).A1 will sum every row and returns (1*number of features) vector
train_text_fea_counts = train_text_feature_onehotCoding.sum(axis=0).A1

# zip(list(text_features),text_fea_counts) will zip a word with its number of times it occured
text_fea_dict = dict(zip(list(train_text_features),train_text_fea_counts))

print("Total number of unique words in train data :", len(train_text_features))
# don't forget to normalize every feature
train_text_feature_onehotCoding = normalize(train_text_feature_onehotCoding, axis=0)
```

```

train_text_feature_onehotCoding = normalize(train_text_feature_onehotCoding, axis=0)

# we use the same vectorizer that was trained on train data
test_text_feature_onehotCoding = text_vectorizer.transform(test_df['TEXT'])
# don't forget to normalize every feature
test_text_feature_onehotCoding = normalize(test_text_feature_onehotCoding, axis=0)

# we use the same vectorizer that was trained on train data
cv_text_feature_onehotCoding = text_vectorizer.transform(cv_df['TEXT'])
# don't forget to normalize every feature
cv_text_feature_onehotCoding = normalize(cv_text_feature_onehotCoding, axis=0)

```

Total number of unique words in train data : 1000

stacking of data

In [0]:

```

train_gene_var_onehotCoding = hstack((train_gene_feature_onehotCoding, train_variation_feature_onehotCoding))
test_gene_var_onehotCoding = hstack((test_gene_feature_onehotCoding, test_variation_feature_onehotCoding))
cv_gene_var_onehotCoding = hstack((cv_gene_feature_onehotCoding, cv_variation_feature_onehotCoding))

train_x_onehotCoding = hstack((train_gene_var_onehotCoding, train_text_feature_onehotCoding)).tocsr()
train_y = np.array(list(train_df['Class']))

test_x_onehotCoding = hstack((test_gene_var_onehotCoding, test_text_feature_onehotCoding)).tocsr()
test_y = np.array(list(test_df['Class']))

cv_x_onehotCoding = hstack((cv_gene_var_onehotCoding, cv_text_feature_onehotCoding)).tocsr()
cv_y = np.array(list(cv_df['Class']))

```

Logistic Regression

with class balance

In [29]:

```

alpha = [10 ** x for x in range(-6, 3)]
cv_log_error_array = []
for i in alpha:
    print("for alpha =", i)
    clf = SGDClassifier(class_weight='balanced', alpha=i, penalty='l2', loss='log', random_state=42)
    clf.fit(train_x_onehotCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_onehotCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
    # to avoid rounding error while multiplying probabilities we use log-probability estimates
    print("Log Loss :", log_loss(cv_y, sig_clf_probs))

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array, c='g')
for i, txt in enumerate(np.round(cv_log_error_array, 3)):
    ax.annotate((alpha[i], str(txt)), (alpha[i], cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

best_alpha = np.argmin(cv_log_error_array)
clf = SGDClassifier(class_weight='balanced', alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:", log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)

```

```

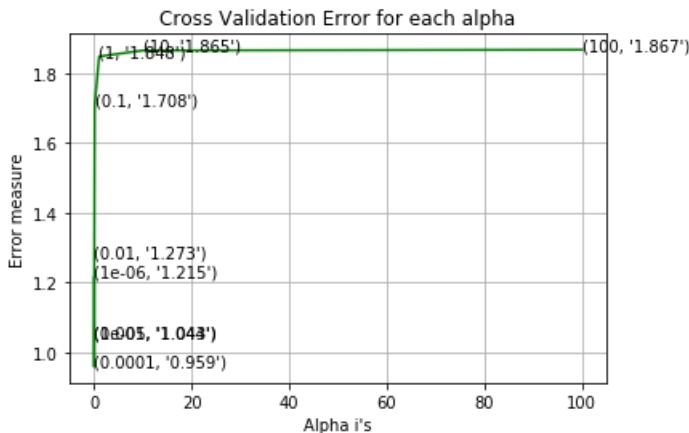
print("For values of best alpha = ", alpha[best_alpha], "The cross validation log loss is:", log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print("For values of best alpha = ", alpha[best_alpha], "The test log loss is:", log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))
)

```

```

for alpha = 1e-06
Log Loss : 1.2152772602059096
for alpha = 1e-05
Log Loss : 1.043365615063646
for alpha = 0.0001
Log Loss : 0.9589665620123913
for alpha = 0.001
Log Loss : 1.0440302688048446
for alpha = 0.01
Log Loss : 1.2729498145216491
for alpha = 0.1
Log Loss : 1.7079323831145166
for alpha = 1
Log Loss : 1.8480882984986409
for alpha = 10
Log Loss : 1.865309056269761
for alpha = 100
Log Loss : 1.8673723478691235

```



For values of best alpha = 0.0001 The train log loss is: 0.713558396328447
 For values of best alpha = 0.0001 The cross validation log loss is: 0.9589665620123913
 For values of best alpha = 0.0001 The test log loss is: 0.944501074826381

Testing with best Hyperparameter

In [36]:

```

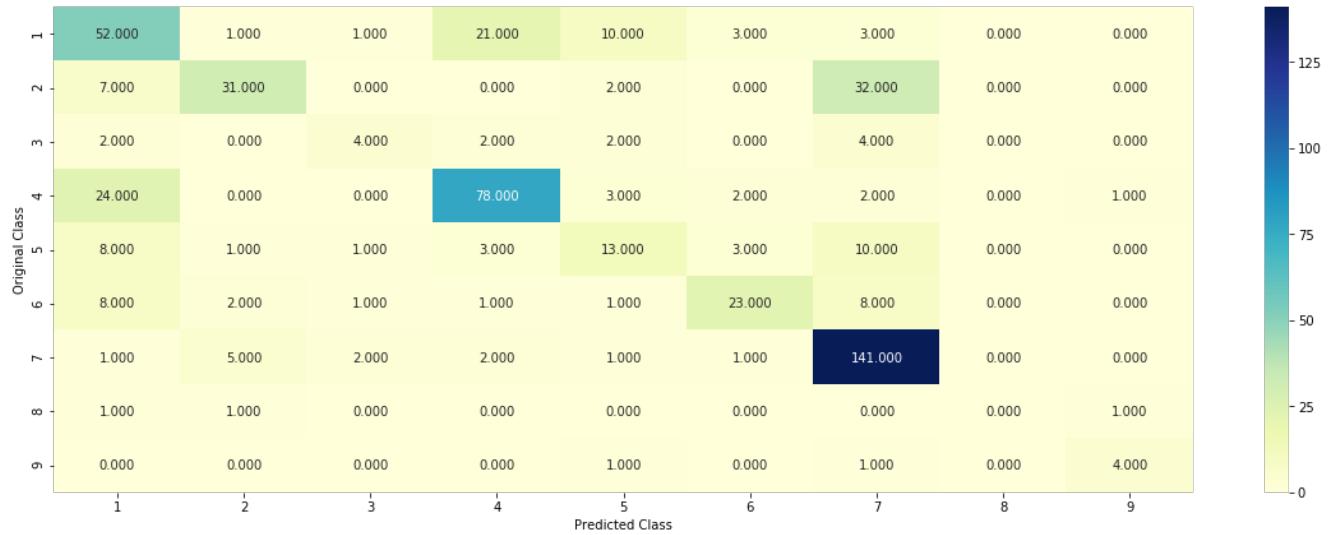
# read more about SGDClassifier() at http://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDClassifier.html
# -----
# default parameters
# SGDClassifier(loss='hinge', penalty='l2', alpha=0.0001, l1_ratio=0.15, fit_intercept=True, max_iter=None, tol=None,
# shuffle=True, verbose=0, epsilon=0.1, n_jobs=1, random_state=None, learning_rate='optimal', eta0=0.0, power_t=0.5,
# class_weight=None, warm_start=False, average=False, n_iter=None)

# some of methods
# fit(X, y[, coef_init, intercept_init, ...]) Fit linear model with Stochastic Gradient Descent.
# predict(X) Predict class labels for samples in X.

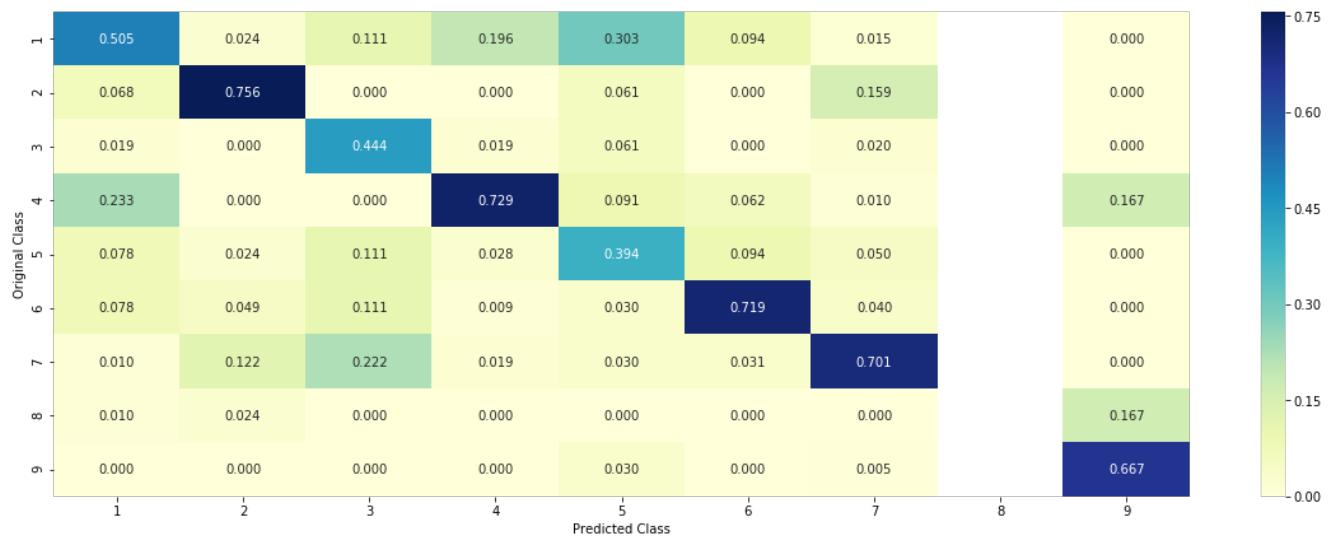
# -----
# video link: https://www.appliedaicourse.com/course/applied-ai-course-online/lessons/geometric-intuition-1/
# -----
clf = SGDClassifier(class_weight='balanced', alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
predict_and_plot_confusion_matrix(train_x_onehotCoding, train_y, cv_x_onehotCoding, cv_y, clf)

```

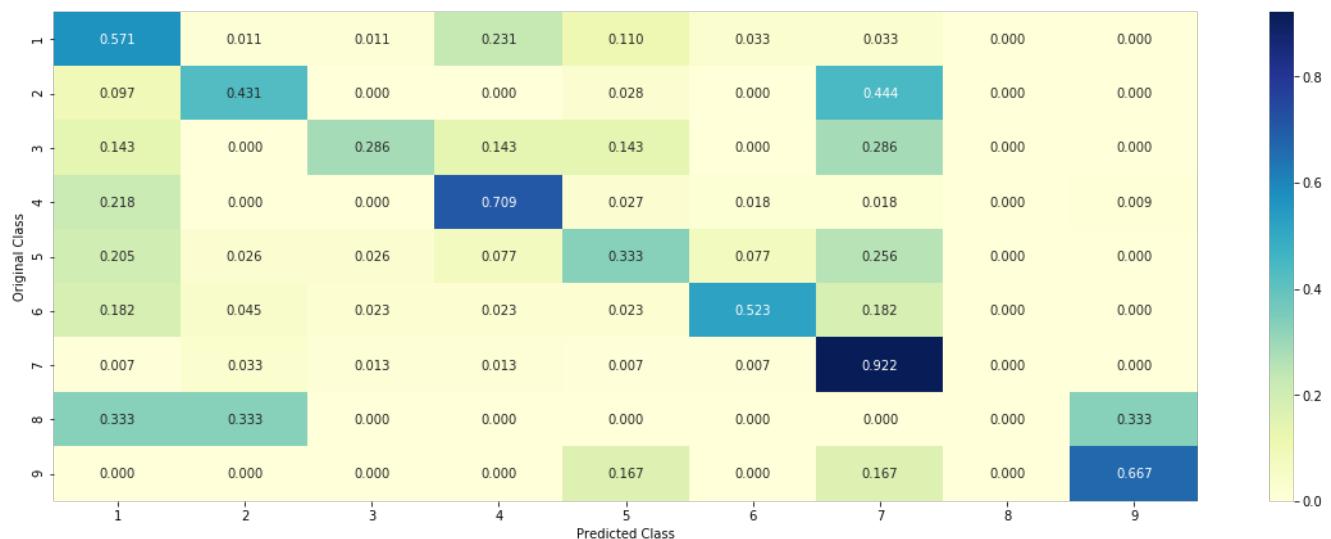
Log loss : 0.9589665620123913
 Number of mis-classified points : 0.34962406015037595
 ----- Confusion matrix -----



----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----



without class balance

In [31]:

```
alpha = [10 ** x for x in range(-6, 3)]
```

```

cv_log_error_array = []
for i in alpha:
    print("for alpha =", i)
    clf = SGDClassifier(alpha=i, penalty='l2', loss='log', random_state=42)
    clf.fit(train_x_onehotCoding, train_y)
    sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
    sig_clf.fit(train_x_onehotCoding, train_y)
    sig_clf_probs = sig_clf.predict_proba(cv_x_onehotCoding)
    cv_log_error_array.append(log_loss(cv_y, sig_clf_probs, labels=clf.classes_, eps=1e-15))
    # to avoid rounding error while multiplying probabilities we use log-probability estimates
    print("Log Loss :",log_loss(cv_y, sig_clf_probs))

fig, ax = plt.subplots()
ax.plot(alpha, cv_log_error_array,c='g')
for i, txt in enumerate(np.round(cv_log_error_array,3)):
    ax.annotate((alpha[i],str(txt)), (alpha[i],cv_log_error_array[i]))
plt.grid()
plt.title("Cross Validation Error for each alpha")
plt.xlabel("Alpha i's")
plt.ylabel("Error measure")
plt.show()

best_alpha = np.argmin(cv_log_error_array)
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
clf.fit(train_x_onehotCoding, train_y)
sig_clf = CalibratedClassifierCV(clf, method="sigmoid")
sig_clf.fit(train_x_onehotCoding, train_y)

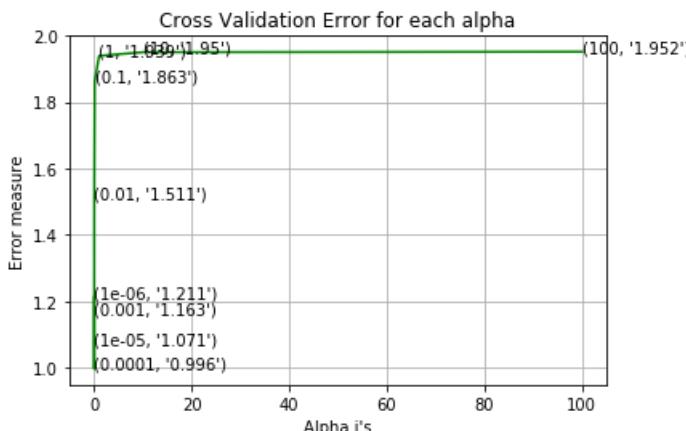
predict_y = sig_clf.predict_proba(train_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The train log loss is:",log_loss(y_train, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(cv_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The cross validation log loss is:",log_loss(y_cv, predict_y, labels=clf.classes_, eps=1e-15))
predict_y = sig_clf.predict_proba(test_x_onehotCoding)
print('For values of best alpha = ', alpha[best_alpha], "The test log loss is:",log_loss(y_test, predict_y, labels=clf.classes_, eps=1e-15))
)

```

```

for alpha = 1e-06
Log Loss : 1.2108782889978629
for alpha = 1e-05
Log Loss : 1.0707356418093619
for alpha = 0.0001
Log Loss : 0.9958449141369434
for alpha = 0.001
Log Loss : 1.1631952959475094
for alpha = 0.01
Log Loss : 1.5114578326041008
for alpha = 0.1
Log Loss : 1.862526808573624
for alpha = 1
Log Loss : 1.939120017945882
for alpha = 10
Log Loss : 1.950109809273624
for alpha = 100
Log Loss : 1.9515503949331252

```



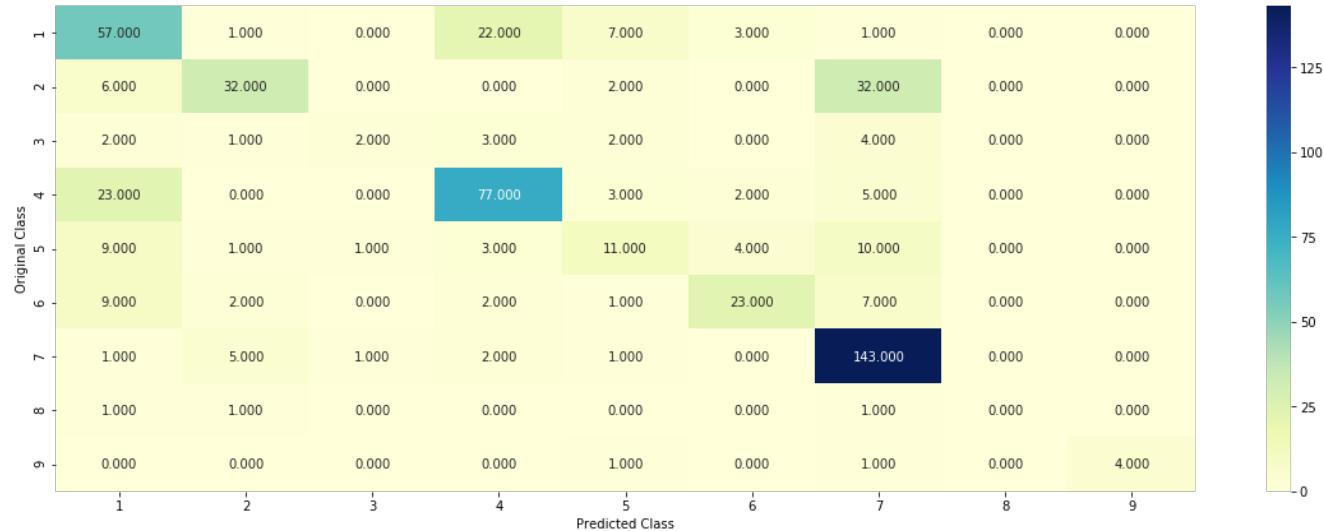
For values of best alpha = 0.0001 The train log loss is: 0.7153187022133203
 For values of best alpha = 0.0001 The cross validation log loss is: 0.9958449141369434
 For values of best alpha = 0.0001 The test log loss is: 0.9665124509756727

Testing with best parameter

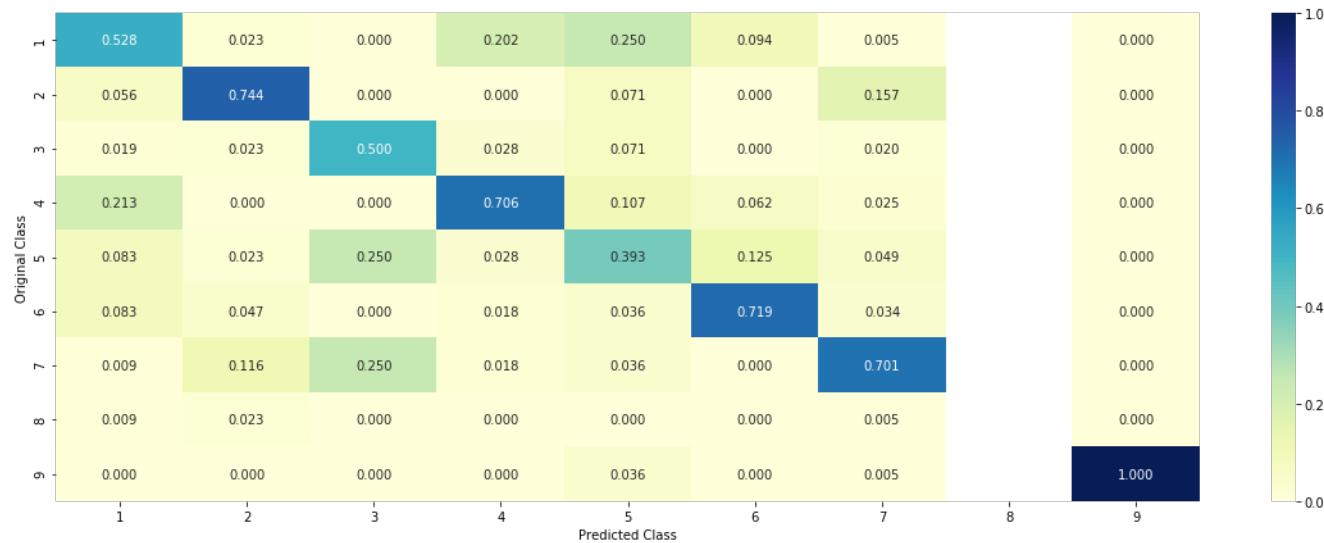
In [37]:

```
clf = SGDClassifier(alpha=alpha[best_alpha], penalty='l2', loss='log', random_state=42)
predict_and_plot_confusion_matrix(train_x_onehotCoding, train_y, cv_x_onehotCoding, cv_y, clf)
```

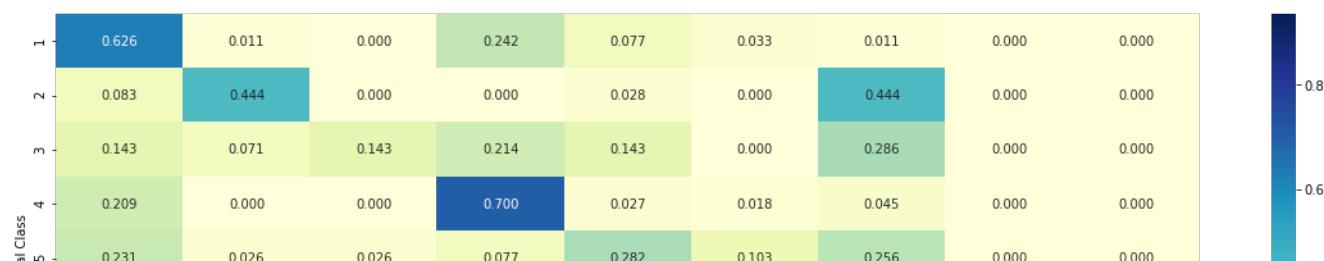
Log loss : 0.9958449141369434
 Number of mis-classified points : 0.34398496240601506
 ----- Confusion matrix -----

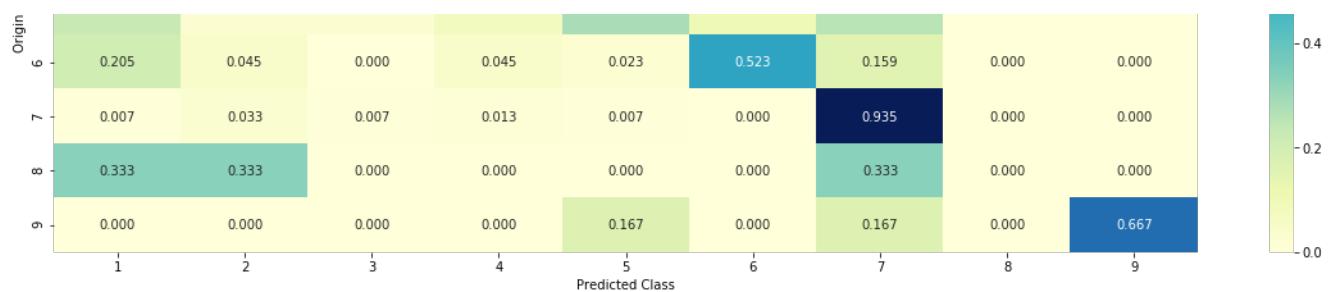


----- Precision matrix (Column Sum=1) -----



----- Recall matrix (Row sum=1) -----





Conclusion

Step by Step explanation

1. First I identify which type of machine learning problem this case study is.
2. Then I found the business constraints
3. Then I trained a random model to decide the max value of the log loss
4. Then I did the exploratory data analysis such as : Distribution of y_i's in Train, Test and Cross Validation datasets, univariant analysis of every features.
5. Then I trained varioius model using categorical featurization both one hot and response encoding also text feaurization,depending on the algorithm
6. Then I featurize the text data on other featureization technique in order to reduce the log loss value below 1.0
7. At the end I came to a conclusion that Logistic regression with clas balance gives me the lowest loss on both cv and test

Model Results

Tfidf vectorizer

In [164]:

```
from prettytable import PrettyTable
x = PrettyTable()
x.field_names = ["MODEL","VECORIZATION","MIN_LOG_LOSS(cv)","MIN_LOG_LOSS(test)","Misclassified percentage"]
x.add_row(["Naive Bayes", 'Tfidf', 1.206,1.233,39.84])
x.add_row(["KNN", 'Tfidf', 1.013,1.061,32.89])
x.add_row(["Logistic regression class balance", 'Tfidf', 1.061,1.071,35.33])
x.add_row(["Logistic regression without class balance", 'Tfidf', 1.081,1.080,35.15])
x.add_row(["Linear SVM", 'Tfidf', 1.147,1.151,37.40])
x.add_row(["Random Forest one hot encoding", 'Tfidf', 1.096,1.160,37.59])
x.add_row(["Random Forest response encoding", 'Tfidf', 1.38,1.39,51.50])
x.add_row(["Stacking model", 'Tfidf', 1.109,1.105,36.99])
x.add_row(["Maximum Voting Classifier", 'Tfidf', 1.116,1.129,36.54])

print(x)
```

MODEL	VECORIZATION	MIN_LOG_LOSS(cv)	MIN_LOG_LOSS(test)	Misclassified percentage
Naive Bayes	Tfidf	1.206	1.233	39.84
KNN	Tfidf	1.013	1.061	32.89
Logistic regression class balance	Tfidf	1.061	1.071	35.33
Logistic regression without class balance	Tfidf	1.081	1.08	35.15
Linear SVM	Tfidf	1.147	1.151	37.4
Random Forest one hot encoding	Tfidf	1.096	1.16	37.59
Random Forest response encoding	Tfidf	1.38	1.39	51.5
Stacking model	Tfidf	1.109	1.105	36.99
Maximum Voting Classifier	Tfidf	1.116	1.129	36.54

1000 words based on tfidf value

In [165]:

```
y = PrettyTable()
y.field_names = ["WORD","VECOLORIZATION","MIN_LOGLOSS","MAXLOGLOSS","AVGLOGLOSS","STDLOGLOSS"]
```

```

y.field_names = ["MODEL", "VECORIZATION", "MIN_LOG_LOSS(cv)", "MIN_LOG_LOSS(test)", "Misclassified percentage"]
y.add_row(["Naive Bayes", 'Tfidf', 1.105, 1.190, 37.96])
y.add_row(["KNN", 'Tfidf', 1.013, 1.061, 32.89])
y.add_row(["Logistic regression class balance", 'Tfidf', 0.981, 1.062, 32.33])
y.add_row(["Logistic regression without class balance", 'Tfidf', 1.014, 1.019, 34.21])
y.add_row(["Linear SVM", 'Tfidf', 1.153, 1.132, 35.15])
y.add_row(["Random Forest one hot encoding", 'Tfidf', 1.144, 1.198, 40.22])
y.add_row(["Random Forest response encoding", 'Tfidf', 1.384, 1.394, 51.50])
y.add_row(["Stacking model", 'Tfidf', 1.082, 1.158, 38.34])
y.add_row(["Maximum Voting Classifier", 'Tfidf', 1.135, 1.203, 38.79])

print(y)

```

MODEL	VECORIZATION	MIN_LOG_LOSS(cv)	MIN_LOG_LOSS(test)	Misclassified percentage
Naive Bayes	Tfidf	1.105	1.19	37.96
KNN	Tfidf	1.013	1.061	32.89
Logistic regression class balance	Tfidf	0.981	1.062	32.33
Logistic regression without class balance	Tfidf	1.014	1.019	34.21
Linear SVM	Tfidf	1.153	1.132	35.15
Random Forest one hot encoding	Tfidf	1.144	1.198	40.22
Random Forest response encoding	Tfidf	1.384	1.394	51.5
Stacking model	Tfidf	1.082	1.158	38.34
Maximum Voting Classifier	Tfidf	1.135	1.203	38.79

Logistic regression with countvectorizer and both unigram and bigram

In [166]:

```

z = PrettyTable()
z.field_names = ["MODEL", "VECORIZATION", "MIN_LOG_LOSS(cv)", "MIN_LOG_LOSS(test)", "Misclassified percentage"]
z.add_row(["Logistic regression class balance", 'CountVectorizer(ngram = (1,2))', 1.154, 1.190, 40.03])
z.add_row(["Logistic regression without class balance", 'CountVectorizer(ngram = (1,2))', 1.138, 1.194, 39.47])
print(z)

```

MODEL	VECORIZATION	MIN_LOG_LOSS(cv)	MIN_LOG_LOSS(test)	Misclassified percent age
Logistic regression class balance	CountVectorizer(ngram = (1,2))	1.154	1.19	40.03
Logistic regression without class balance	CountVectorizer(ngram = (1,2))	1.138	1.194	39.47

Logistic regression with log loss less than 1.0

In [167]:

```

k = PrettyTable()
k.field_names = ["MODEL", "VECORIZATION", "MIN_LOG_LOSS(cv)", "MIN_LOG_LOSS(test)", "Misclassified percentage"]
k.add_row(["Logistic regression class balance", 'CountVectorizer(ngram = (1,2), max_feature = 1000)', 0.958, 0.944, 34.96])
k.add_row(["Logistic regression without class balance", 'CountVectorizer(ngram = (1,2))', 0.995, 0.966, 34.39])
print(k)

```

MODEL	VECORIZATION	MIN_LOG_LOSS(cv)	MIN_LOG_LOSS(test)	Misclas sified percentage
Logistic regression class balance	CountVectorizer(ngram = (1,2), max_feature = 1000)	0.958	0.944	34.96
Logistic regression without class balance	CountVectorizer(ngram = (1,2))	0.995	0.966	34.39

In [0]:

