1.a2. Reading the	rics import classification_report rics import cohen_kappa_score as cks rl_selection import train_test_split rorcessing import StandardScaler rort svm rs sns rp refile rd_csv('FIT1043-Essay-Features.csv')
shape will show how many features.shape (1332, 19) (1332, 19) 1.b. Datatypes in features.dtypes	nany rows and columns there are in the dataset respectively. In features
essayid chars words commas apostrophes punctuations avg_word_length sentences questions avg_word_sentence POS POS/total_words prompt_words prompt_words/total synonym_words/total synonym_words/total	int64
unstemmed stemmed score dtype: object essayid chars words commas apostrophes punctuations avg_word_length sentences questions avg_word_sentence POS POS/total_words prompt words	<pre>int64 int64 float64 float64 int64 float64 int64 int64</pre>
prompt_words/total synonym_words synonym_words/tota unstemmed stemmed score dtype: object A small test to see i	L_words float64 int64
1328 1015 1182 1329 1345 1814 1330 344 1427 1331 1077 2806 essayid chars v 1327 1151 2404 1328 1015 1182 1329 1345 1814 1330 344 1427	241 0 14 0 4.904564 16 0 15.062500 238.69 363 5 11 0 4.997245 13 3 27.923077 362.33 287 5 8 0 4.972125 13 1 22.076923 284.69 542 24 6 0 5.177122 22 3 24.636364 538.99 words commas apostrophes punctuations avg_word_length sentences questions avg_word_sentence 467 16 10 0 5.147752 22 0 21.227273 462.99 241 0 14 0 4.904564 16 0 15.062500 238.69 363 5 11 0 4.997245 13 3 27.923077 362.33 287 5 8 0 4.972125 13 1 22.076923 284.69
1331 1077 2806 features.head() essayid chars word 0 1457 2153 42 1 503 1480 29 2 253 3964 84	26/ 5 24 6 0 5.177122 22 3 24.636364 538.98 26/ Commas apostrophes punctuations avg_word_length sentences questions avg_word_sentence PC 26 14 6 0 5.053991 16 0 26.625000 423.99527 292 9 7 0 5.068493 11 0 26.545455 290.99310 49 19 26 1 4.669022 49 2 17.326531 843.99054 10 8 7 0 4.704762 12 0 17.500000 207.65378
essayid chars word 0 1457 2153 42 1 503 1480 29 2 253 3964 84 3 107 988 21	o0 13 8 0 5.231667 24 1 25.000000 594.65215 ds commas apostrophes punctuations avg_word_length sentences questions avg_word_sentence PC 26 14 6 0 5.053991 16 0 26.625000 423.99527 92 9 7 0 5.068493 11 0 26.545455 290.99310 49 19 26 1 4.669022 49 2 17.326531 843.99054 10 8 7 0 4.704762 12 0 17.500000 207.65378 00 13 8 0 5.231667 24 1 25.000000 594.65219
1157 1075 1870 419 1499 2275 1218 416 2697 1240 750 2238 3 107 988 essayid chars v 1157 1075 1870	words commas apostrophes punctuations avg_word_length sentences questions avg_word_sentence 371 21 3 0 5.040431 22 0 16.863636 367.32 466 4 11 0 4.881974 19 2 24.526316 459.32 512 22 15 0 5.267578 28 2 18.285714 507.64 436 9 2 1 5.133028 20 0 21.800000 432.66 210 8 7 0 4.704762 12 0 17.500000 207.69 words commas apostrophes punctuations avg_word_length sentences questions avg_word_sentence 371 21 3 0 5.040431 22 0 16.863636 367.32
419 1499 2275 1218 416 2697 1240 750 2238 3 107 988 2. Supervised latasets	466 4 11 0 4.881974 19 2 24.526316 459.3 512 22 15 0 5.267578 28 2 18.285714 507.6 436 9 2 1 5.133028 20 0 21.800000 432.6 210 8 7 0 4.704762 12 0 17.500000 207.6 Hearning Machine Learning, The Notion of Labelled Data and Training and Testing
Supervised learning is we the higher proportion, to retrieved from training it data. 2.b. Separating to the label being used he	when we must create a predictive model based on the given output and input data. There are 2 proportions of that is used for training purposes, and the lower proportion, which is used for testing purposes. Later, the data is used to create a predictive model, which is then used to make predictions that are then compared with the the series "score" as instructed by the question.
y = features.iloc 2.c. Splitting train	<pre>c[:,np.r_[1:5,7:9,13:18]].values #feature data c[:,18].values #labelled data ining and testing data y_train, y_test = train_test_split(x, y, test_size = 0.3, random_state = 0)</pre>
Binary classification are examples are assigned e	he difference between binary and multi-class classification. e tasks where examples are assigned to exactly one of two classes. Whereas, Multi-class classification are task exactly one of more than two classes. Here we can see that we are doing Multi-class Classification. on for Support Vector Machine/Regression, your data should be
Since we have a range of without feature scaling of using its Euclidean distarbance. Therefore, by note 3.bii. # Scaling the feature scale = StandardSo	Scaler() Fit_transform(x_train)
3.ci. Describing Start of all before i start respectively. The main point i would	/M algorithm to build the model SVM in relation to Linear Regression describing SVM in relation to Linear regression, I must first explain what SVM and Linear regression are like to highlight is; s explicit decisions SVM: finds an approximate of real decisions because of computational solutions.
for both classification are algorithm basically created. 3.cii. Explaining The main function of the basis and linear function of data increases which	egression have this key difference how can they be used in relation? An SVM is a supervised algorithm that is and regression tasks. It can solve linear and non-linear problems and work well for many practical problems. The sates a line or a hyperplane that will seperate the data into classes. The kernel in SVM/SVR The kernel is to transform a given datasets input data into the required form. The types include, polynomial, rains. Polynomial and RBF are useful for non-linear planes. Usually, the computational cost increases as the dim a would occur when we required to move to a higher dimension but are unable to find a seperating hyperplanes computational cost by helping find a hyperplane in the higher dimensional space without the need to in
#Creating a svm c.clf = svm.SVC(kern	<pre>using the training sets y_train)</pre>
<pre>y_pred = clf.pred: y_pred array([4, 3, 3, 2,</pre>	- , 3, 4, 4, 4, 2, 4, 4, 3, 4, 3, 3, 4, 3, 4, 4, 4, 3, 3, , 4, 4, 3, 4, 4, 3, 3, 4, 4, 3, 3, 4, 2, 3, 3,
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4, 4, 4, 3] array([4, 3, 3, 2, 3, 3, 3, 4, 3, 3, 3, 4, 4, 4, 3, 4, 2, 3, 3, 4, 4, 3, 4, 3, 4, 4, 4, 2, 3, 4, 4, 4, 2, 3, 4, 4, 4, 4, 3, 3, 3, 4, 3, 3, 4, 4, 3, 3, 3, 4, 3, 3, 4, 4, 3, 3, 4, 4, 3, 3, 4, 4, 3, 3, 4, 4,	I, dtype=int64) 3, 4, 4, 4, 2, 4, 4, 3, 4, 3, 3, 4, 3, 4, 4, 4, 3, 3, 4, 4, 4, 4, 3, 3, 4, 4, 4, 4, 3, 3, 4, 4, 4, 3, 3, 4, 4, 4, 3, 3, 4, 4, 4, 3, 3, 4, 4, 4, 3, 3, 4, 4, 3, 3, 4, 4, 3, 3, 4, 4, 3, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,
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matrix = confusion matrix array([[0, 2,	14, 0, 0, 0], 125, 41, 0, 0], 47, 133, 0, 0], 1, 20, 0, 0],
[0, 3, [0, 0, [0, 0, [0, 0,	125, 41, 0, 0], 47, 133, 0, 0], 1, 20, 0, 0], 0, 1, 0, 0]], dtype=int64) Frame for an array-formatted confusion matrix, so it will be easier to decypher. e(matrix, columns = [0,1,2,3,4,5], index = [0,1,2,3,4,5]) Infusion matrix is = (8,7))
plt.show <pre><function matplot1<="" pre=""></function></pre>	al Values")
Actual Values 3 2 1	12 14 0 0 0 0 -100 3 1.2e+02 41 0 0 -80 0 47 1.3e+02 0 0 0
0 -0 -0	0 1 20 0 0 -20 0 0 1 0 0 0 1 2 3 4 5 Predicted Values Confusion Matrix
2 - 0	2 0 0 0 0 -120 12 14 0 0 0 -100 3 1.2e+02 41 0 0 0 -80
V leu:	0 47 1.3e+02 0 0 -60 -40 -40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Actual Values	
A confusion matrix is us predicted values. It is a confusion matrix and so (TP), False Positive(FP), T Example of said terms b For class 1,	matrix in the form of an N \times N matrix, where N is the number of classes or outputs. For 4 classes, we get 4 \times
A confusion matrix is us predicted values. It is a reconfusion matrix and so (TP), False Positive(FP), T Example of said terms be For class 1, TP: The actual value and FN: The sum of values of the sum of values of the sum of values of the sum of all columns.	Predicted Values sed to know the performance of a machine learning classification. It gives us a comparison between Actual a matrix in the form of an N x N matrix, where N is the number of classes or outputs. For 4 classes, we get 4 x o on. The confusion matrix uses 4 terms to find percission, accuracy and etc. These terms are as follows, True True Negative(TN), and False Negative(FN). based on our matrix is as follows: d predicted value are equal, so TP = 12 of corresponding rows except the TP value FN = 15 of corresponding columns except for the TP Value FP = 5 mns and rows except the values of that class we are calculating for. TN = 368 (TP + TN + FP + FN) = 95%)) = 70.59%
A confusion matrix is us predicted values. It is a reconfusion matrix and so (TP), False Positive(FP), The Example of said terms befor class 1, TP: The actual value and the first sum of values of the first sum of values of the first sum of all columns. The sum of all columns accuracy = (TP + TN) / (TP + FP) accuracy = (TP/(TP + FP)) accuracy = (TP/(TP + FP)) accuracy for this modulation. 3.diii. Explaining Submissions are scored varies from 0 (random a between the raters than the first sum of	sed to know the performance of a machine learning classification. It gives us a comparison between Actual a matrix in the form of an N x N matrix, where N is the number of classes or outputs. For 4 classes, we get 4 x to on. The confusion matrix uses 4 terms to find percission, accuracy and etc. These terms are as follows, True True Negative(TN), and False Negative(FN). based on our matrix is as follows: d predicted value are equal, so TP = 12 of corresponding rows except the TP value FN = 15 of corresponding columns except for the TP Value FP = 5 mns and rows except the values of that class we are calculating for. TN = 368 (TP + TN + FP + FN) = 95% 1) = 70.59% test, y_pred) d Quadratic Weighted Kappa (QWK) It based on the quadratic weighted kappa, which measures the agreement between two ratings. This metric that greement between raters) to 1 (complete agreement between raters). In the event that there is less agreement between raters). In the event that there is less agreement
A confusion matrix is us predicted values. It is a reconfusion matrix and so (TP), False Positive(FP), TExample of said terms befor class 1, TP: The actual value and FN: The sum of values of TN: The sum of values of TN: The sum of all column Accuracy = (TP + TN) / (Precision = (TP/(TP+FP)) accuracy_score (y_for this mode) 3.diii. Explaining Submissions are scored varies from 0 (random a between the raters than which are expected/known Results have 5 possible constructed, such that CAN N-by-N matrix of we have the raters are calculated as the outer paratings, normalized such	seed to know the performance of a machine learning classification. It gives us a comparison between Actual a matrix in the form of an N x N matrix, where N is the number of classes or outputs. For 4 classes, we get 4 x o on. The confusion matrix uses 4 terms to find percission, accuracy and etc. These terms are as follows, True True Negative(TN), and False Negative(FN). Dassed on our matrix is as follows: dipredicted value are equal, so TP = 12 of corresponding rows except the TP value FN = 15 of corresponding columns except for the TP Value FP = 5 mns and rows except the values of that class we are calculating for. TN = 368 (TP + TN + FP + FN) = 95% (TP + TN + FP + FN) = 95% (D) = 70.59% Deset, y_pred) Deset, y_pred) To deset the quadratic weighted Kappa (QWK) It based on the quadratic weighted kappa, which measures the agreement between two ratings. This metric to agreement between raters) to 1 (complete agreement between raters). In the event that there is less agreement on expected by chance, the metric may go below 0. The quadratic weighted kappa is calculated between the sown and the predicted scores. ratings, 0,1,2,3,4. The quadratic weighted kappa is calculated as follows. First, an N x N histogram matrix O i Oij corresponds to the number of adoption records that have a rating of i (actual) and received a predicted eights, w, is calculated based on the difference between actual and predicted rating scores. This is product between the actual rating's histogram vector of ratings and the predicted rating's histogram vector of that E and O have the same sum.
A confusion matrix is us predicted values. It is a confusion matrix and so (TP), False Positive(FP), TExample of said terms be For class 1, TP: The actual value and FN: The sum of values of the sum of values of the sum of all column. Accuracy = (TP + TN) / (TP+FP) accuracy_score (y_formall) accuracy_score (y_formall) accuracy_score (y_formall) 3.diii. Explaining Submissions are scored varies from 0 (random a between the raters than which are expected/known abetween the raters than the rat	Predicted Values sed to know the performance of a machine learning classification. It gives us a comparison between Actual a matrix in the form of an N x N matrix, where N is the number of classes or outputs. For 4 classes, we get 4 x o on. The confusion matrix uses 4 terms to find percission, accuracy and etc. These terms are as follows. True True Negative(TN), and False Negative(FN). based on our matrix is as follows: d predicted value are equal, so TP = 12 of corresponding rows except the TP value FN = 15 of corresponding columns except for the TP Value FP = 5 mns and rows except the values of that class we are calculating for. TN = 368 (TP + TN + FP + FN) = 95% (TP + TN + FP + FN
A confusion matrix is us predicted values. It is a national confusion matrix and so (TP), False Positive(FP), The sample of said terms because of the sample of th	Predicted Values sed to know the performance of a machine learning classification, it gives us a comparison between Actual a matrix in the form of an N x N matrix, where N is the number of classes or outputs. For 4 classes, we get 4 to 2 no. The confusion matrix uses 4 terms to find percission, accuracy and etc. These terms are as follows, True from Regative(TN), and false Negative(FN). Description of the property of the Property of the TP value FN = 15 of corresponding rows except the TP value FN = 15 of corresponding columns except for the TP Value FN = 5 mms and rows except the values of that class we are calculating for. TN = 368 (TP + TN + FP + FN) = 95% (1) = 70.59% (1) = 70.5
A confusion matrix is us predicted values. It is a confusion matrix and so (TP), False Positive(FP), TExample of said terms be For class 1, TP: The actual value and FN: The sum of values of the sum of values of the sum of all column. Accuracy = (TP + TN) / (TP + FP) accuracy_score (y_for this mode) 3.diii. Explaining Submissions are scored varies from 0 (random a between the raters than which are expected/known and the transport of the sum of	Predicted Values The Committee of a machine learning classification. It gives us a companison between Actual a matrix in the form of an N. N. In matrix, where N. is the number of classes or outputs. For 4 classes, we get 4 x on 1. The confusion matrix uses 4 terms to find percission, accuracy and etc. These terms are as follows. Thus The Negative(FN). The Negative(FN) and false Negative(FN). The Predicted value are equal, so TP = 12 The or corresponding rows except the TP value FN = 15 The corresponding columns except to the TP Value FN = 5 The productive of the Values of that class we are calculating for TN = 388 The TN + FP + FN) = 95% The TN + FP + FN) = 95% The TN + FP + FN) = 95% The Debug of the quadratic weighted Kappa (QWK) The based on the quadratic weighted Kappa (QWK) The based on the quadratic weighted Kappa (QWK) The based on the quadratic weighted kappa which measures the agreement between two ratings. This metric taggement between raters, in The convent that there is less agreement between raters, in The convent that the respect to the chance. The retaining rate of the paddratic weighted kappa is calculated to a follows. First, an N x N histogram matrix O in the convent that the quadratic weighted kappa is calculated as follows. First, an N x N histogram vector the that Earned O have the same sum. The
A confusion matrix is us predicted values. It is a reconfusion matrix and so (TP), False Positive(FP), The sample of said terms befor class 1, TP: The actual value and FN: The sum of values of the sample of said terms before class 1, TP: The actual value and so the sample of said terms before class 1, TP: The sum of values of the sample of the said terms before class 1, TP: The sum of values of the sample of the said terms of the sample of th	Predicted Values or enabling learning designation it gives up a competion between Actual materia in the form of an N. P. N. navies, where this is the number of clause for majust. For 4 clauses, neger 4 is on. The confusion materia case 4 terms to find pecision, accuracy and etc. These terms are as follows, Trust Trust Nagarrent(N., and frate Regative(N)). ascerd on our matrix is as follows: discretely all the second of the second of the P value PP = 5 of corresponding row accept the TP value FP = 5 of corresponding columns except for the TP value FP = 5 of corresponding columns except for the total case we are calculating for. TN = 368 (IP + TN + FP = FN) = 95% 1) = 70.55% g Quadratic Weighted Kappa (QWK) It based on the quadratic weighted kappa with measures the agreement between two ratings. This nettic the prediction of the quadratic weighted kappa with measures the agreement between the order to the quadratic weighted kappa with measures the agreement between the order to the prediction of the quadratic weighted kappa with the prediction designation of the prediction of the prediction of the prediction of the difference between actual and predicted rating 3 histogram vector in ratings and the predicted rating 3 histogram vector in the prediction of the pred
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A confusion matrix is us predicted values. It is a a confusion matrix and so (TP), False Positive(FP), The sum of values of the sum of the	Prediction States Prediction States The state insure that profession is N × N manis, where N is the number of classes or outpool. The discharge materials in the first of the states of the states are states. The discharge view of the states are states and the states are states. The discharge view of the states are states are as follows. The states are states are states are as follows. The states are states are states are states are states are as follows. The states are states are states are states are states. The states are states are states are states are states are states are states. The states are states are states are states are states are states. The states are states are states are states are states are states. The states are states are states are states are states are states. The states are states. The states are states. The states are
A confusion matrix is us predicted values. It is a confusion matrix and so (TP), False Positive(FP), TExample of said terms before the said terms before t	word to more the performance of a machine various generation is given as a companion between Amala micros in the form of an K-K micros, where k in the summer of accessor analasts, not 4 classis select 4 in the summer of accessor analasts, not 4 classis select 4 in the summer of accessor analasts, not 4 classis select 4 in the summer of accessor analasts, not 4 classis select 4 in the summer of accessor analasts, not 4 classis select 4 in the summer of accessor analasts, not 4 classis select 4 in the summer of accessor analasts and the summer of accessor analasts and the summer of accessor analasts of the summer of accessor analasts of the summer of accessor analasts of the summer of accessor and accessor and accessor and accessor and accessor and accessor analasts of the summer of accessor and accessor and accessor analasts of the summer of accessor and accessor accessor and accessor accessor and accessor and accessor accessor accessor and accessor accessor and accessor accessor accessor accessor accessor and accessor a
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