Independent Project - Week 8

New Attempt

Due No due date **Points** 15 **Submitting** a website url

No additional details were added for this assignment.

Some rubric (1)

Criteria	Ratings			Pts
Decision Trees	**5 Pts** **Excellent** The student has implemented the decision trees following the best practices of optimization. This includes feature selection, splitting the data into subsets to use in modeling and visualizing the decision trees created. The student has also interpreted the feature selection done and models created.	**3 Pts** **Meets Expectation** The student has implemented the decision trees following the best practices of optimization. This includes feature selection, splitting the data into subsets to use in modeling and visualizing the decision trees created. The student cannot interpret the feature selection done and models created.	**0 Pts** **Needs Improvement** The student has not implemented the decision trees following the best practices of optimization. This includes feature selection, splitting the data into subsets to use in modeling and visualizing the decision trees created. The student cannot interpret the feature selection done and models created.	5 pts
Support Vector Machine	**5 Pts** **Excellent** The Student has applied Polynomial, linear and rbf kernel function to build their SVM model . He/She has evaluated their performance and picks the kernel that performs the best. The student used their best performing kernel together with their tuned parameters and repeated the prediction but this time using most of the features. The student has documented what transformation they've done on the data.	**3 Pts** **Meets Expectation** The Student partly applied Polynomial, linear and rbf kernel function to build their SVM model . He/She has partly evaluated their performance and picks the kernel that performs the best. The student partly used their best performing kernel together with their tuned parameters and repeated the prediction but this time using most of the features. The student has partly documented what transformation they've done on the data.	**0 Pts** **Needs Improvement** The Student does not apply Polynomial, linear and rbf kernel function to build their SVM model . He/She has not evaluated their performance and does not pick the kernel that performs the best. The student does not use their best performing kernel together with their tuned parameters and repeated the prediction but this time using most of the features. The student has not documented what transformation they've done on the data.	5 pts

Criteria	Ratings			Pts
Exploratory Data Analysis and Documentation	**5 Pts** **Excellent** The student exhaustively applies the exploratory data analysis approaches while defining the question, the metric for success, the context, experimental design taken and the appropriateness of the available data to answer the given question. The students find and deal with outliers, anomalies, and missing data within the dataset. More on, they interpret and challenge the solution by providing insights on why and how they can make improvements. Also, the documentation is well written and clearly explains what the code is accomplishing and how. A comprehensive conclusion is well articulated based on the findings.	**3 Pts** **Meets Expectation** The student partly applies the exploratory data analysis approach while defining the question, the metric for success, the context, experimental design taken and the appropriateness of the available data to answer the given question. The students partly find and deal with outliers, anomalies, and missing data within the dataset. They partly interpret and challenge the solution by providing insights on why and how they can make improvements. Also, the documentation is written, however, the student does not clearly explain what the code is accomplishing. The conclusion is articulated based on the findings.	**0 Pts** **Needs Improvement** The student does not apply the exploratory data analysis approach while defining the question, the metric for success, the context, experimental design taken and the appropriateness of the available data to answer the given question. The student does not find and deal with outliers, anomalies, and missing data within the dataset. They do not interpret and challenge the solution by providing insights on why and how they can make improvements. There is no evidence of any documentation that helps the reader understand the code.	5 pts
				Total points: 15