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Logout

PROJECT SPECIFICATION

Finding Donors for CharityML

Exploring the Data

CRITERIA	MEETS SPECIFICATIONS
Data Exploration	Student's implementation correctly calculates the following:
	 Number of records Number of individuals with income >\$50,000 Number of individuals with income <=\$50,000 Percentage of individuals with income > \$50,000

Preparing the Data

CRITERIA	MEETS SPECIFICATIONS
Data Preprocessing	Student correctly implements one-hot encoding for the feature and income data.

Evaluating Model Performance

CRITERIA	MEETS SPECIFICATIONS
Question 1: Naive Predictor Performance	Student correctly calculates the benchmark score of the naive predictor for both accuracy and F1 scores.
Question 2: Model Application	The pros and cons or application for each model is provided with reasonable justification why each model was chosen to be explored.
	Please list all the references you use while listing out your pros and cons.

CRITERIA	MEETS SPECIFICATIONS
Creating a Training and Predicting Pipeline	Student successfully implements a pipeline in code that will train and predict on the supervised learning algorithm given.
Initial Model Evaluation	Student correctly implements three supervised learning models and produces a performance visualization.

Improving Results

CRITERIA	MEETS SPECIFICATIONS
Question 3: Choosing the Best Model	Justification is provided for which model appears to be the best to use given computational cost, model performance, and the characteristics of the data.
Question 4: Describing the Model in Layman's Terms	Student is able to clearly and concisely describe how the optimal model works in layman's terms to someone who is not familiar with machine learning nor has a technical background.

CRITERIA	MEETS SPECIFICATIONS
Model Tuning	The final model chosen is correctly tuned using grid search with at least one parameter using at least three settings. If the model does not need any parameter tuning it is explicitly stated with reasonable justification.
Question 5: Final Model Evaluation	Student reports the accuracy and F1 score of the optimized, unoptimized, models correctly in the table provided. Student compares the final model results to previous results obtained.

Feature Importance

	RITERIA	MEETS SPECIFICATIONS
Feature Relevance individual's' income. Discussion is provided for why these features were chosen. Observation	eature Relevance	Student ranks five features which they believe to be the most relevant for predicting an individual's' income. Discussion is provided for why these features were chosen.

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CRITERIA	MEETS SPECIFICATIONS
Question 7: Extracting Feature Importances	Student correctly implements a supervised learning model that makes use of the feature_importances_ attribute. Additionally, student discusses the differences or similarities between the features they considered relevant and the reported relevant features.
Question 8: Effects of Feature Selection	Student analyzes the final model's performance when only the top 5 features are used and compares this performance to the optimized model from Question 5 .