

Initial Model Training Code, Model Validation and Evaluation

Date	15 July 2024
Team ID	740108
Project Title	Octagon Oracle: Machine Learning-Powered UFC FIGHT FORECAST
Maximum Marks	4 Marks

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include classification reports, accuracy, and confusion matrices for multiple models, presented through respective screenshots.

Initial Model Training Code:

Paste the screenshot of the model training code

Model Validation and Evaluation Report:

Model	Classification Report	Accuracy	Confusion Matrix
RandomForestClassifier	<pre> Classification Report for Decision Tree classifier: precision recall f1-score support 0 1.00 1.00 1.00 146 1 1.00 0.50 0.67 2 2 0.50 1.00 0.67 1 3 1.00 1.00 1.00 214 accuracy 1.00 363 macro avg 0.88 0.88 0.83 363 weighted avg 1.00 1.00 1.00 363 </pre>	99.45%	<pre> Confusion Matrix: [[146 0 0 0] [1 0 1 0] [0 0 1 0] [0 0 0 214]] </pre>
DecisionTreeClassifier	<pre> Classification Report for Decision Tree classifier: precision recall f1-score support 0 1.00 1.00 1.00 146 1 1.00 0.50 0.67 2 2 0.50 1.00 0.67 1 3 1.00 1.00 1.00 214 accuracy 1.00 363 macro avg 0.88 0.88 0.83 363 weighted avg 1.00 1.00 1.00 363 </pre>	99.72%	<pre> Confusion Matrix for Decision Tree classifier: [[146 0 0 0] [0 1 1 0] [0 0 1 0] [0 0 0 214]] </pre>