

## Project Initialization and Planning Phase

Date	15 July 2024
Team ID	739668
Project Name	Octagon Oracle: Machine Learning-Powered UFC FIGHT FORECAST
Maximum Marks	3 Marks

### Define Problem Statements (Customer Problem Statement Template):

Create a machine learning-powered UFC fight forecast system, the Octagon Oracle, that predicts the outcomes of UFC fights with high accuracy. The system should analyse fighter data, historical fight statistics, and other relevant factors to provide insights into potential fight results. The goal is to develop a reliable tool that can assist fans, analysts, and bettors in making informed predictions for UFC fights.

<b>I am</b>	An avid UFC fan who is deeply invested in the sport and enjoys predicting fight outcomes. A sports bettor looking to make informed decisions to increase my chances of winning bets.
<b>I'm trying to</b>	Accurately forecast the outcomes of UFC fights. Use data-driven insights to improve my betting strategies. Enhance my understanding and commentary of UFC fights with reliable predictions.
<b>But</b>	The current methods of prediction are often based on subjective opinions or incomplete data. The predictions available to me are not consistently reliable or accurate.
<b>Because</b>	There is a vast amount of data to consider, including fighter statistics, fight histories, and external factors, making manual analysis difficult. The variability and unpredictability of fights make it challenging to rely on simple prediction methods.
<b>Which makes me feel</b>	Frustrated with the lack of reliable resources to make informed predictions. Hesitant to place bets due to uncertainty and potential losses.

### Example:

I am	I'm trying to	But	Because	Which makes me feel
A UFC fan.	Predict fight outcomes accurately.	I struggle to find reliable prediction tools.	Available tools lack comprehensive data analysis and accuracy.	Frustrated

<b>Problem Statement (PS)</b>	<b>I am (Customer)</b>	<b>I'm trying to</b>	<b>But</b>	<b>Because</b>	<b>Which makes me feel</b>
PS-1	A UFC fan or sports analyst.	Make informed bets on UFC fights based on accurate forecasts.	The current prediction methods are often unreliable and lack consistency.	They don't leverage the latest advancements in machine learning and data analysis.	Disappointed and skeptical about the predictions.
PS-2	A sports betting enthusiast.	Make informed bets on UFC fights based on accurate forecasts.	The available tools provide inconsistent and often inaccurate predictions.	They fail to analyse the comprehensive data available for fighters and match histories.	Frustrated and hesitant to place bets.