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Sports Analytics

1. Problem Statement

Our football analytics team has relied on third party software that has been expensive to use for our football analytics analysts in the organization. We want to our software engineering to create a local program that help supply the same functionality. This program can help save cost for our football organization to rely on a program that we coded simultaneously and prevent any data leakage or privacy issues that come from using third party software.

The sports analytics program will be used by the Baltimore Ravens. It will be based on fifthteen other teams on 2017 schedule. The software will assess player performance on a week to week basis. The performance will be assessed individually based on a point metric system. FanDuel point metric system can be used <https://rotogrinders.com/articles/fanduel-nfl-strategy-239686> for offense, defense and special teams. Strength of schedule for the Baltimore Ravens  and other teams will be calculated based on player cumulative performance, strength of schedule from last season, and throughout the season. Score ranges will be predicted based on the point differential through games.

1. Software Requirements

The data analyst will be allowed to authenticate or login into the system for confidentiality.

The data analyst can input .csv files or input raw data for analysis.

The data analyst is allowed to see what statistical data that is shown on the screen.

The data analyst can test the data to see how good they are for scouting and signing prospects.

The data analyst can notes such factoring injuries, suspensions, limited practices and any other factors that can limit their performance.

The data analyst can add custom formulas, mathematical analysis to enhance the experience of using it. The software be sold as it is, but will allow customization for freedom.