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Problem Statement – Software Engineering Project

Dear Team President,

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.

This sports analytics program will be based on the football team (Baltimore Ravens) in contrast to AFC North Teams and teams that appear on the 2017 NFL schedule. The teams include Cinncinati Bengals, Cleveland Browns, Jacksonville Jaguars, Pittsburgh Steelers, Oakland Raiders, Chicago Bears, Minnesota Vikings, Miami Dolphins, Tennessee Titans, Green Bay Packers, Houston Texans, Detroit Lions, and Indianapolis Colts. The software focus on assessing players performance based on week to week statistics on each player not only for team but also for other teams emphasized. Assessing this trend of consistency (if their performance will be static or dynamic) to see of how effective they are in the game. Trend analysis will be used for assessing for the trends for teams—linear, exponential, and trend analysis. Rank teams based off the schedule especially based on strength of schedule. The strength of schedule will be evaluated based of percentages and graphs. The program will predict the scores for games. Create game time decisions or predictions on how players will perform for statistics. Predictive analytics will be used for predicting the scores and game time decisions. The program will used the raw data from CSV files mathematical calculations but also for other teams that are mentioned.