**NFL Season Modelling**

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# PROJECT PROBLEM STATEMENT

We need to create a model that can help predict the next NFL season based on previous stats (this can be an allotment of any number of weeks). Basically, using these stats, we want to use neural networks to simulate a brand new season.

# CONCISE DESIGN OVERVIEW

We will need to first utilize neural networks through TensorFlow as well as various NFL APIs to gather stats from.

# SCOPE STATEMENT

The scope includes a model that takes into account various stats that it would then use to generate a brand new simulation that would output the results of games. The series of games would have to be given in advance to the simulation.

# TIMELINE

Define a plan for what model we are going to use, by 5/14 -> Source data into a CSV file 5/18 -> Feed data into model 5/21 (During demo time) -> Fine touches and possibly add more statistics to consider 5/27 -> Build into deliverables 5/31

# TEST PLAN

We will test the solution by using the model with 5 test cases. We will see how close the model is to these 5 NFL seasons and hope that the variance from the expected result is less than say, 30-40%

# RISKS AND CONTINGENCY PLANS

If our project does not end up working and we cannot get the model to work, we can switch to purely developing new stats using formulas instead of modelling.