

NFL PASSING SUCCESS

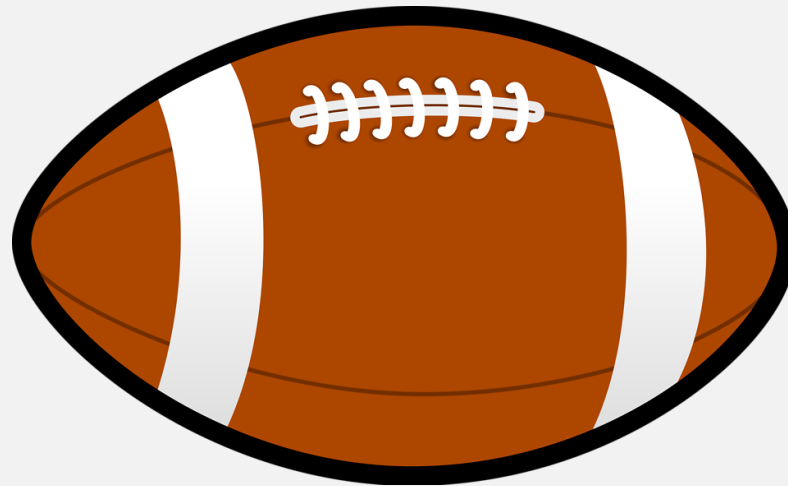
By David Brown

BUSINESS PROBLEM

- Importance of the passing game and QB position
- Scheme
- Efficiency
- Defensive Philosophy
- Best Conditions For Success

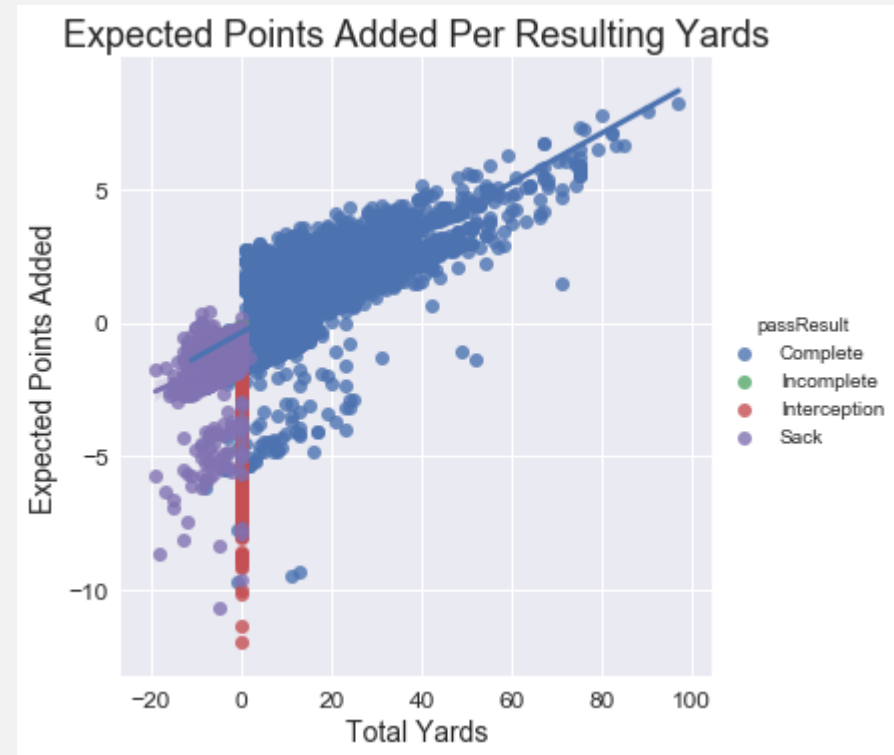
DATA USED

- NFL Big Data Bowl
- Pro Football Reference



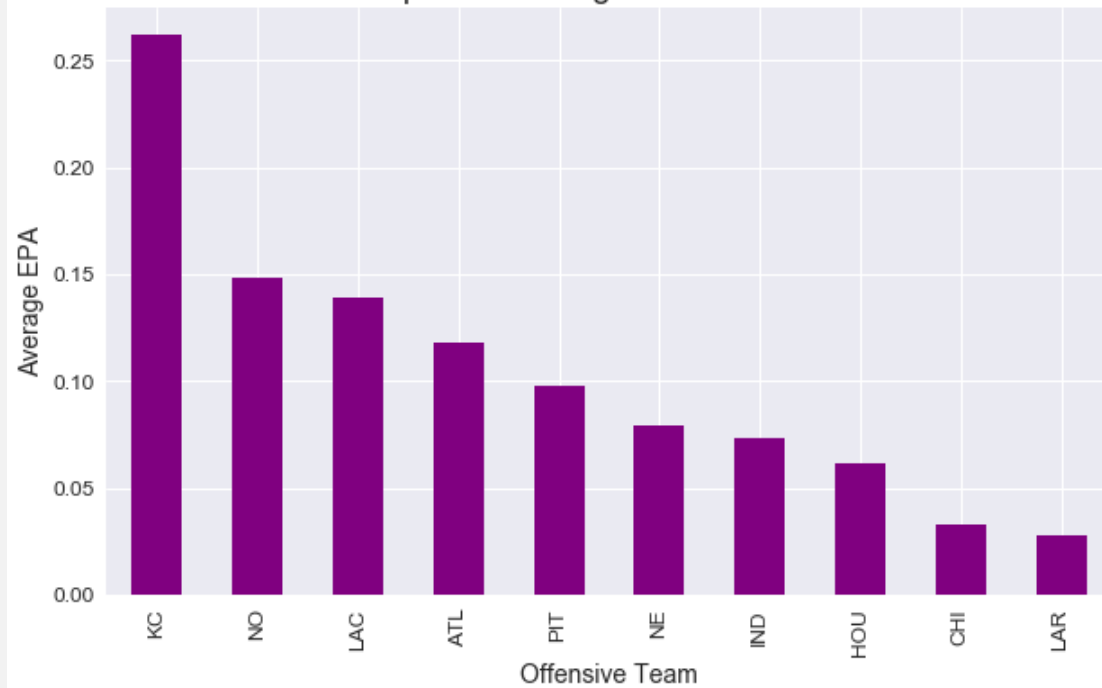
MODEL RESULTS

- Root Mean Squared Error Train: 0.00345
- Root Mean Squared Error Test: 0.02316
- R-Squared Train: 0.97767
- R-Squared Test: 0.86249

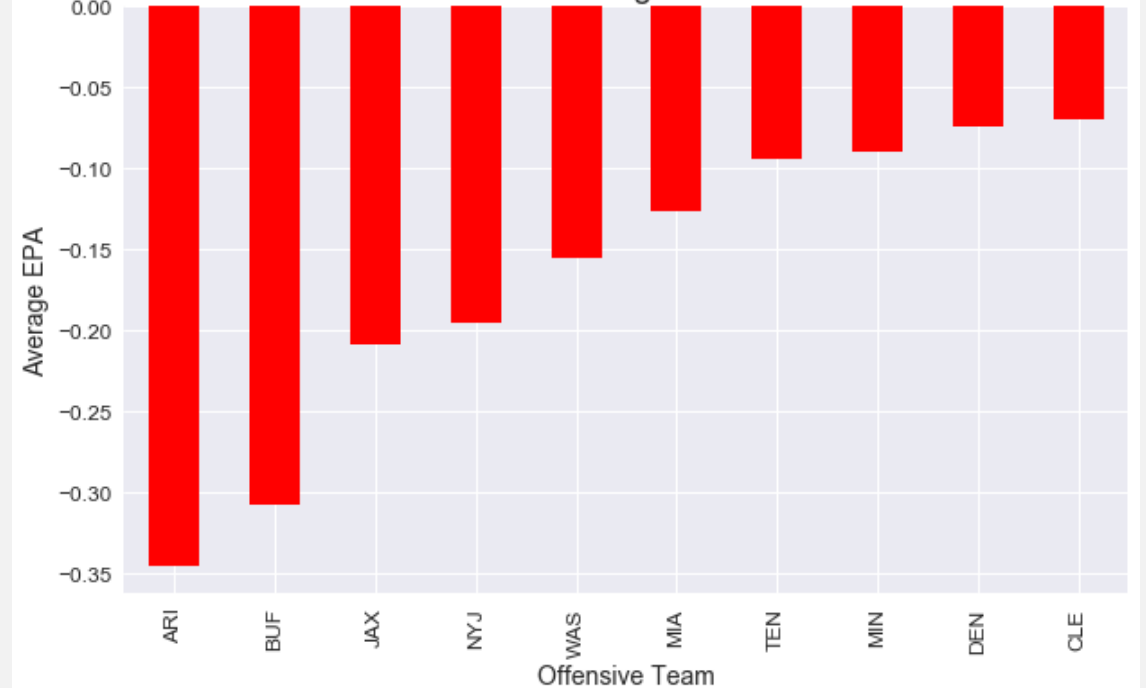


TEAM RESULTS

Top Ten Passing Teams Per EPA

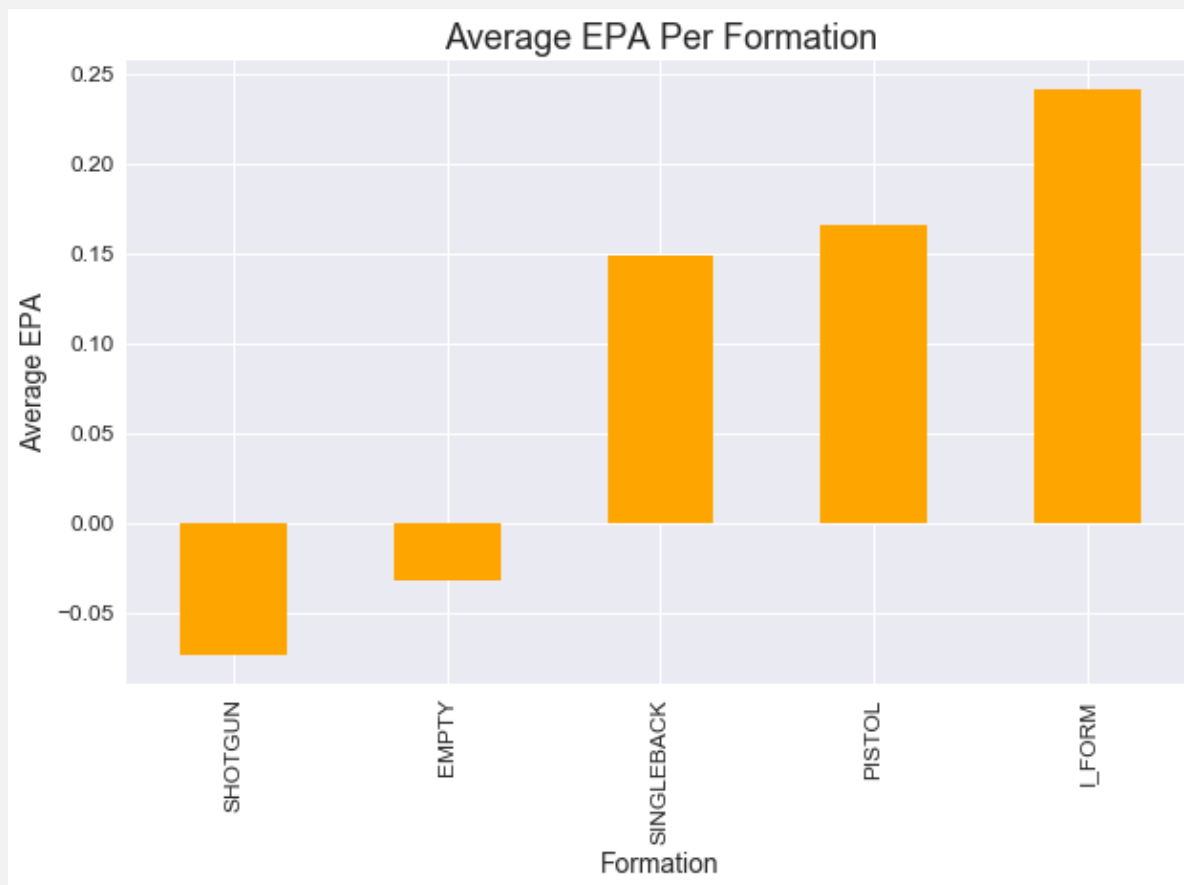


Bottom Ten Passing Teams Per EPA

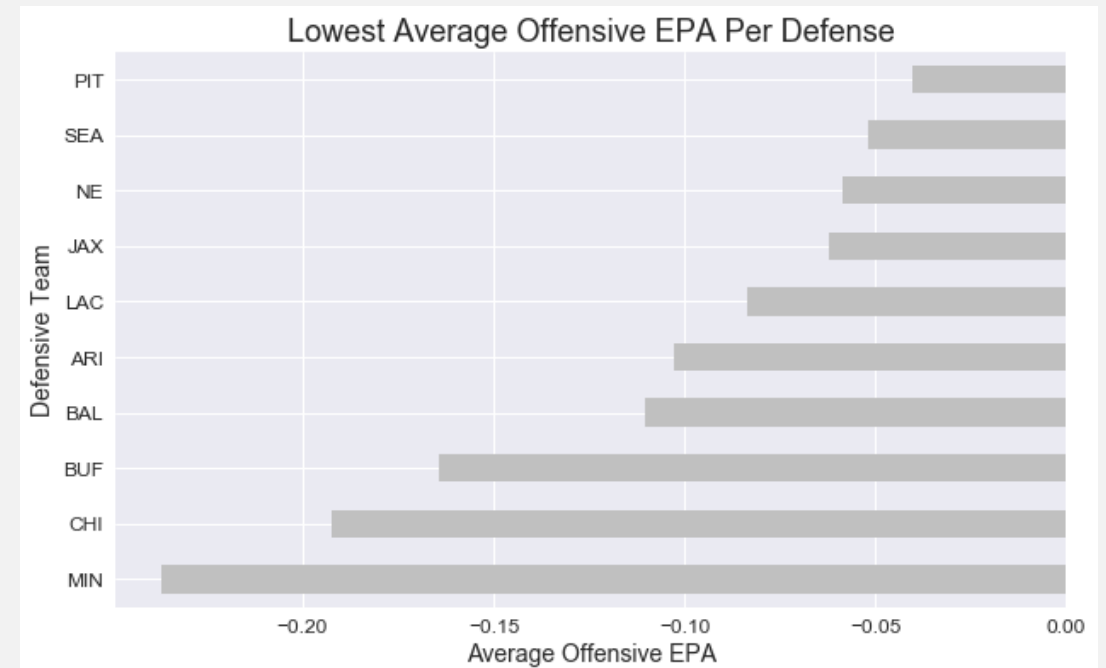
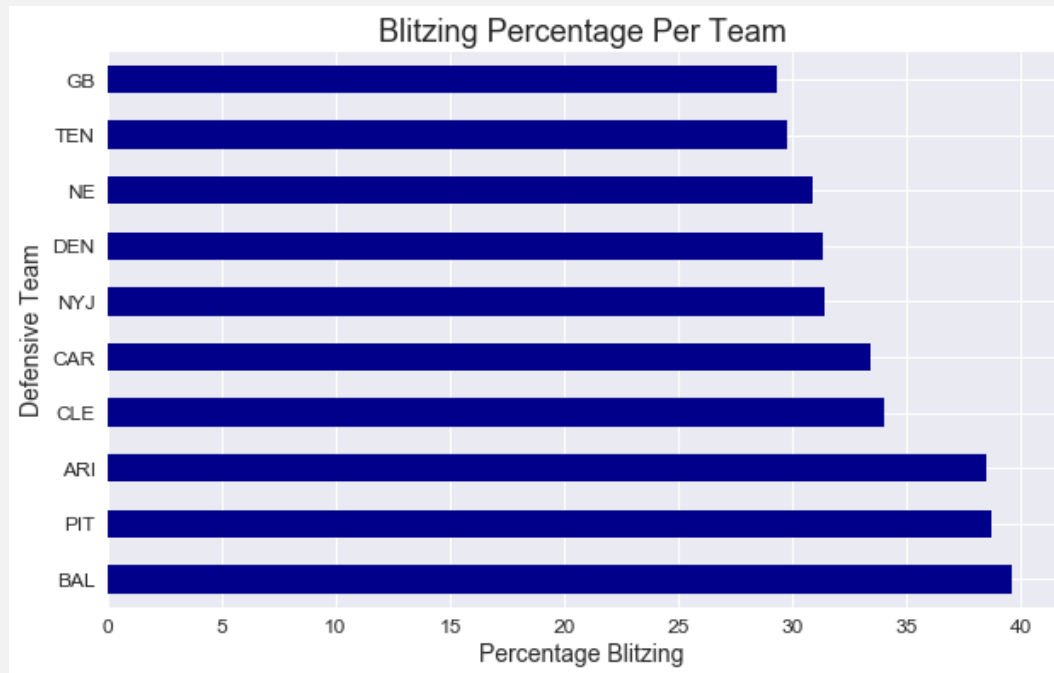


RECOMMENDATIONS

Play Action Pass

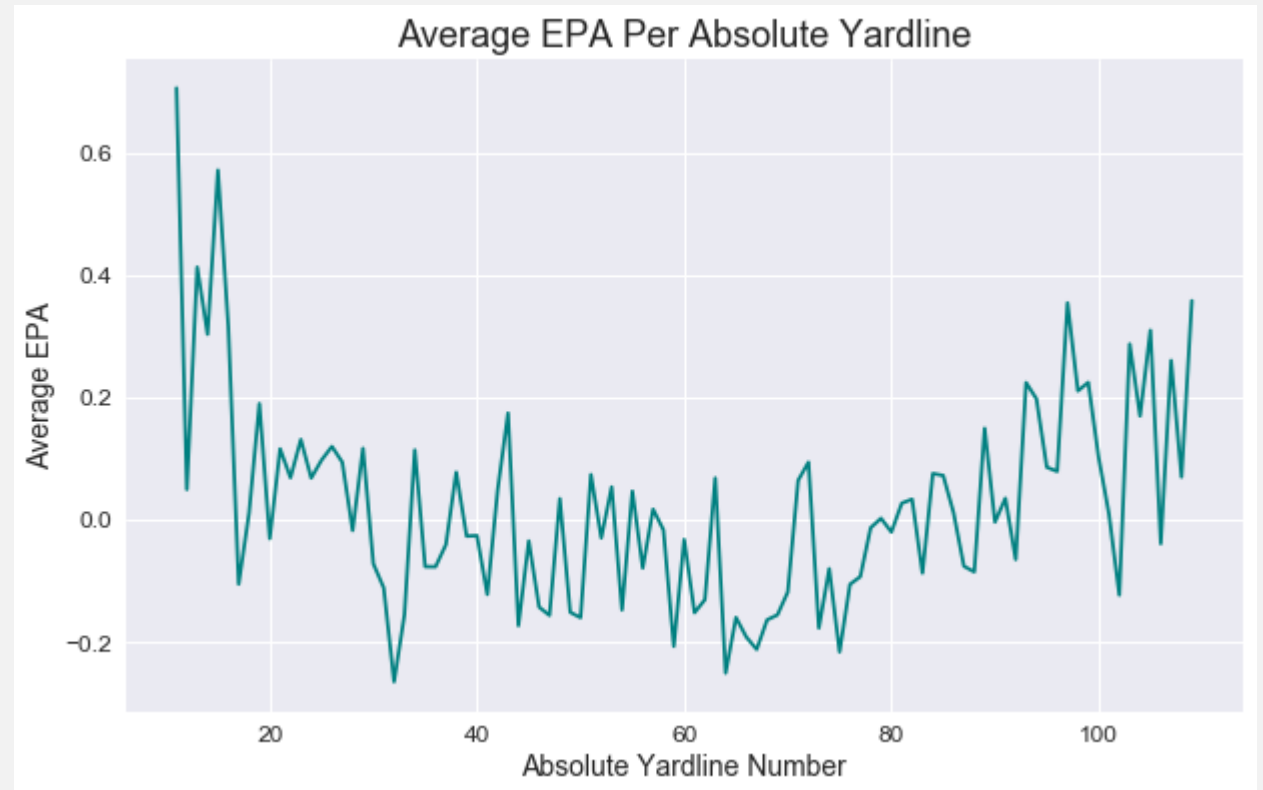


RECOMMENDATIONS



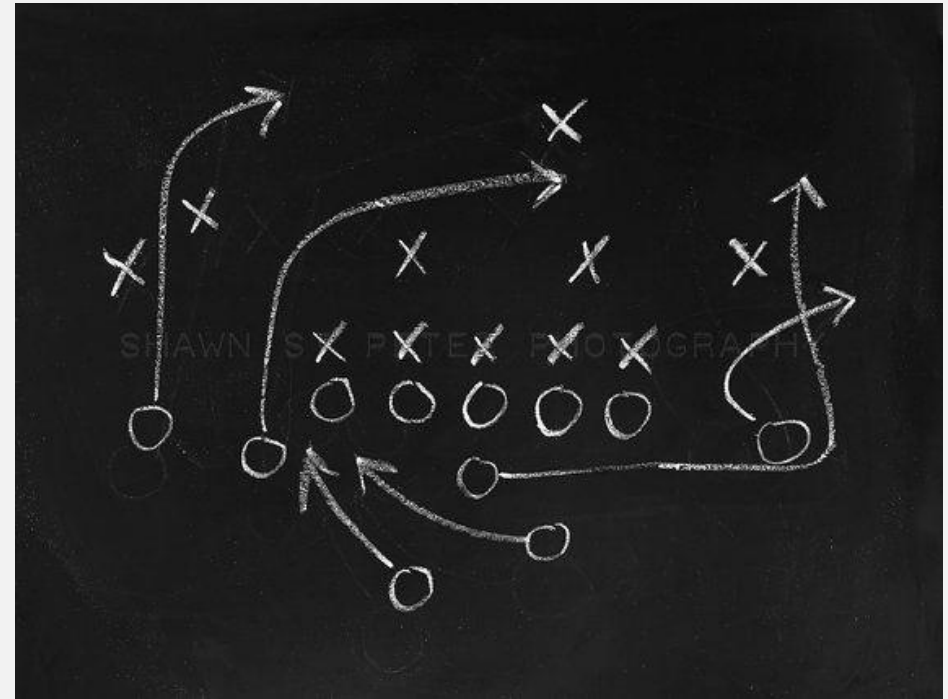
RECOMMENDATIONS

Go for the big play early



FUTURE WORK

1. Additional seasons of data
2. Route combinations
3. Running plays
4. Defensive play info
5. Team dashboard



THANK YOU! ANY QUESTIONS?



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