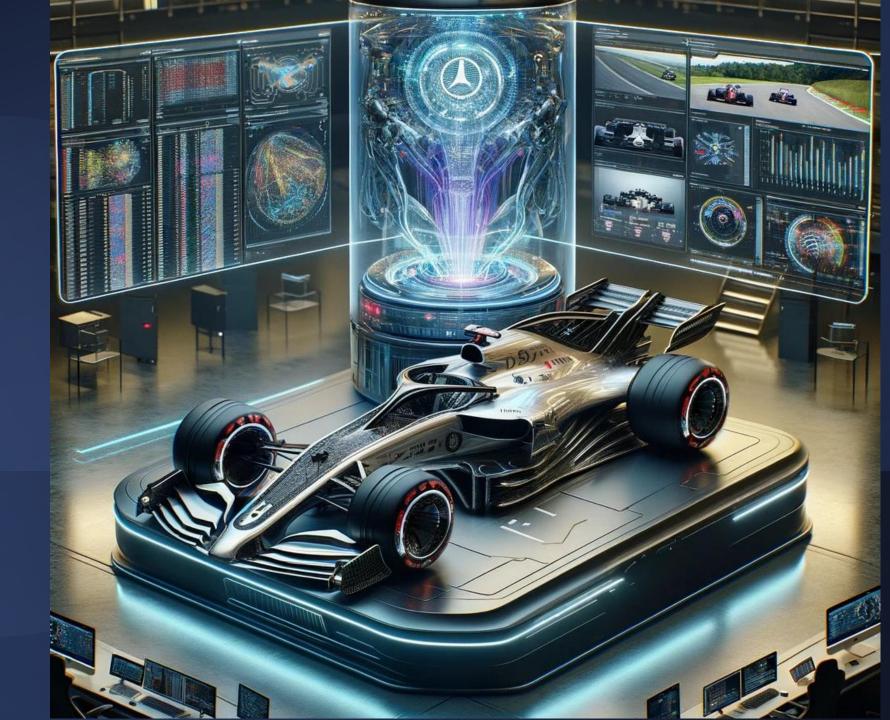
F1 Grand Prix Race Win Predictor — Sprint 3





Predicting F1 winner: can we make £?

Reintroduction to the Problem Space



What makes a winner?



Models for Sprint 3

- Logistic Regression
- Decision Tree
- Random Forest
- XG Boost



Data Overview and Changes



Dataset V3: more feature

engineering



Encoding Changes: e.g.

constructorId



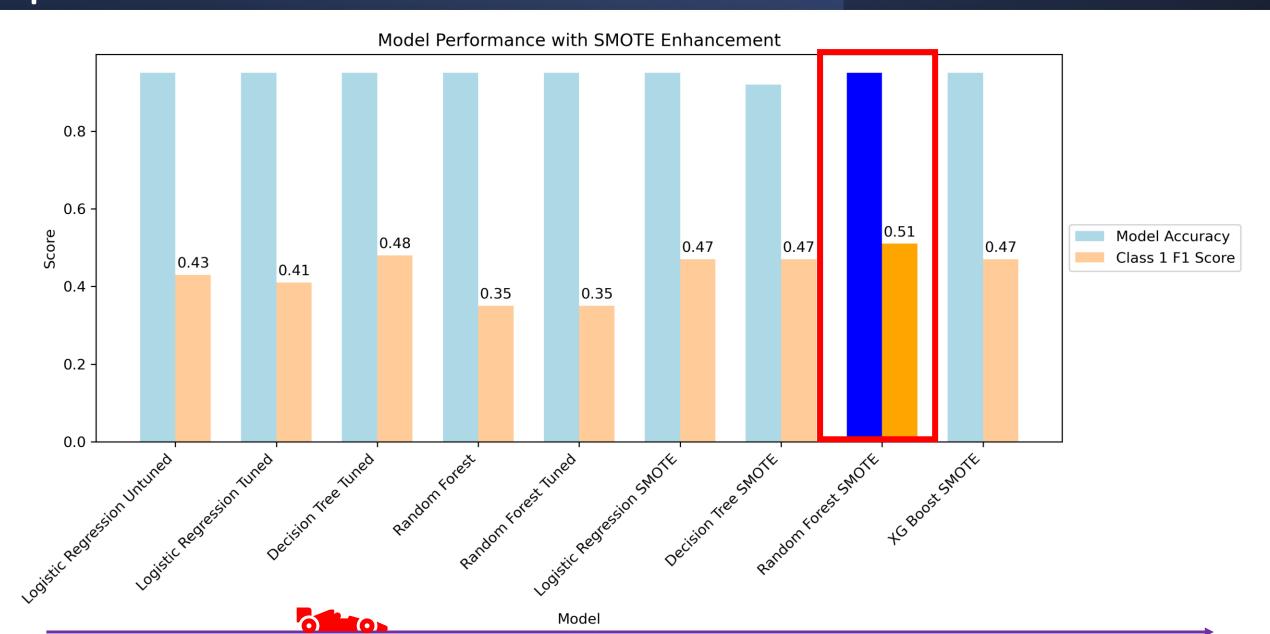
New Features: e.g. age, years in F1



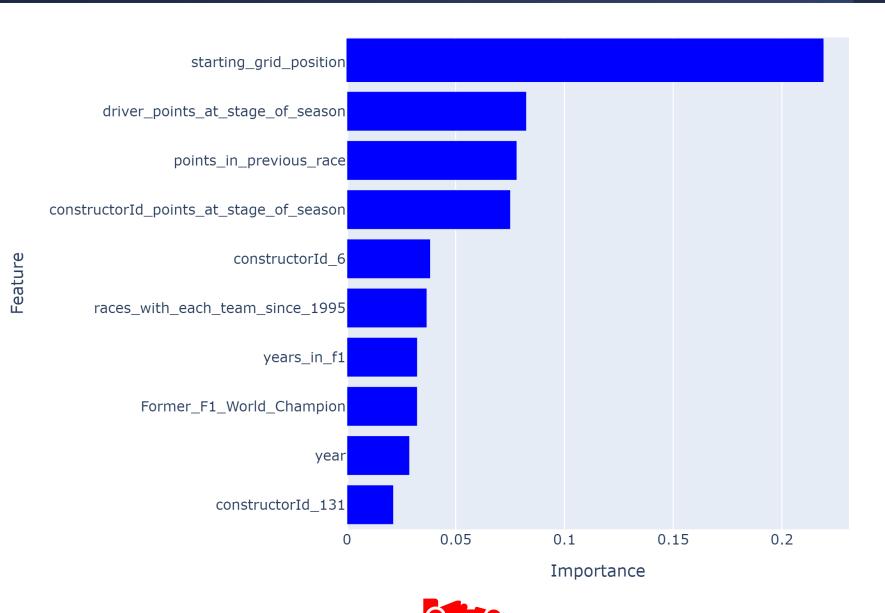
2024 dataset: created for testing



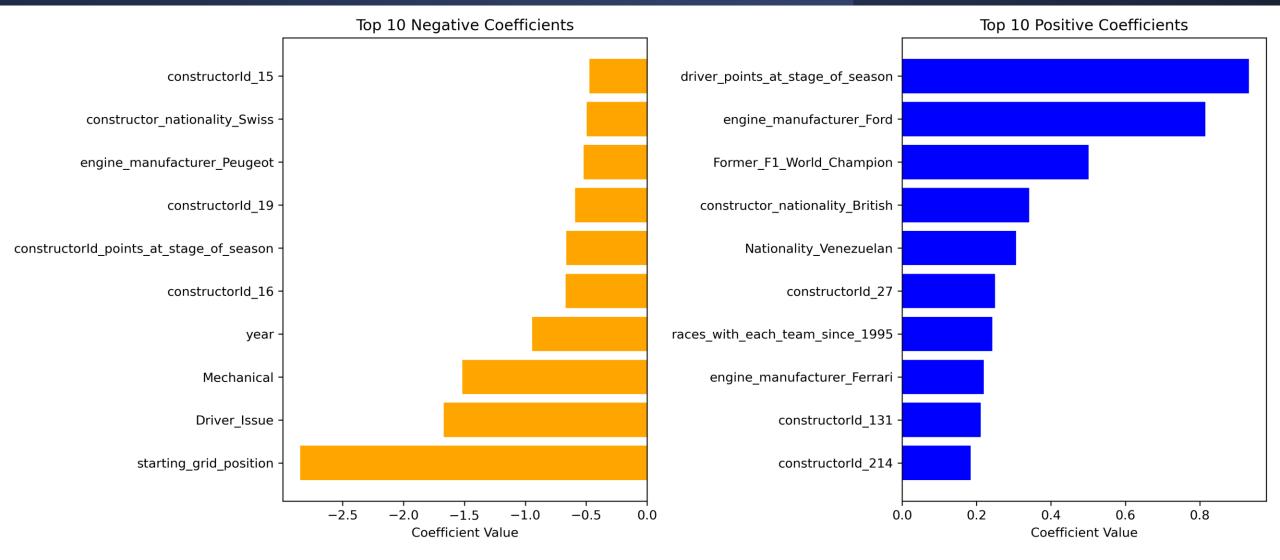
Bpridom Mordets SMOTE Performed best



Starting Grid Position is Key To Predicting Winners



What factors influence wins... from 1st Logistic Regression



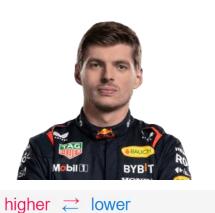


Would we have won any money in 2024? £92

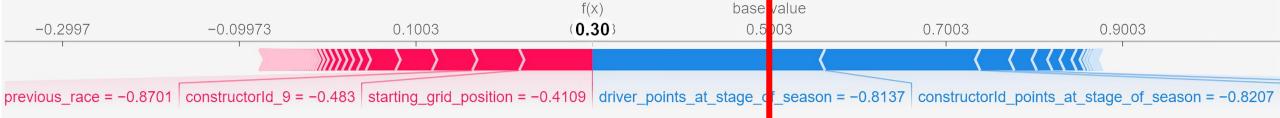
Race	Model Prediction	Race Winner	Bet?	Winnings
	30%	1.35x		
	59%	1.25x	£100	£25
* * *	28%	9x		
	56%	1.67	x £100	£67

Model Interpretation – Shapley Value

NO WIN



WIN





Moving forward...



Demo Day & Final Submission



Make the model simpler



Automate Data Collection Pipeline



UX & Data Design – AWS Amplify



ML to Predict Variables Pre-Race



Thanks for your time

Appendix

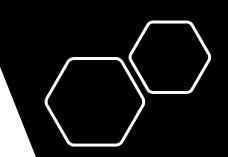
Product Design Idea





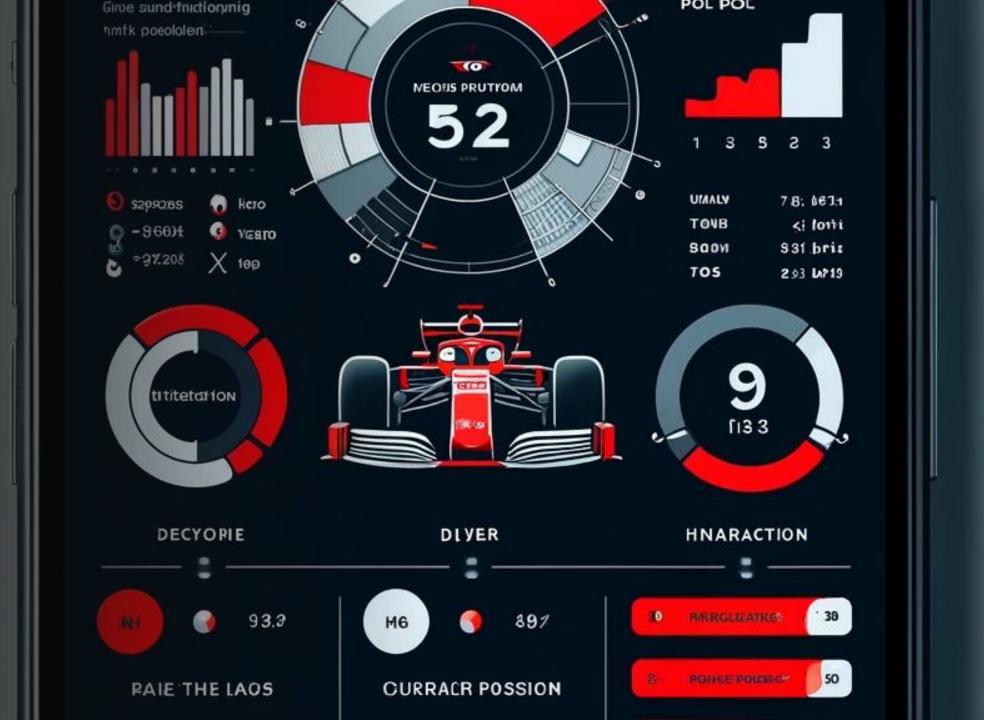
















What Model performed the best?

