

Betfair Dataset

Analytics

Are There Correlations Between Winning Bets and Sports Types
Location / Weather / Bet Types?

Sports Betting

Global market value
(2023):

~\$105B

Annual growth
rate:

8.2%

Growth:

- Legalization in more countries
- Use of big data and analytics
- Mobile sports betting
- Development of new products and services



Bets:

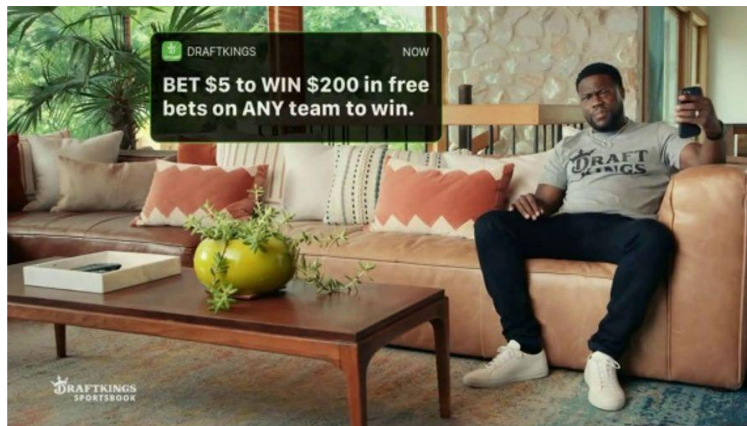
- **Fixed-odds:** bets with bookmaker
- **Betting exchanges:** customers bet against each other





Betfair

- More advanced
- Largest Exchange
- **4 million** customers
- **\$6B/week**



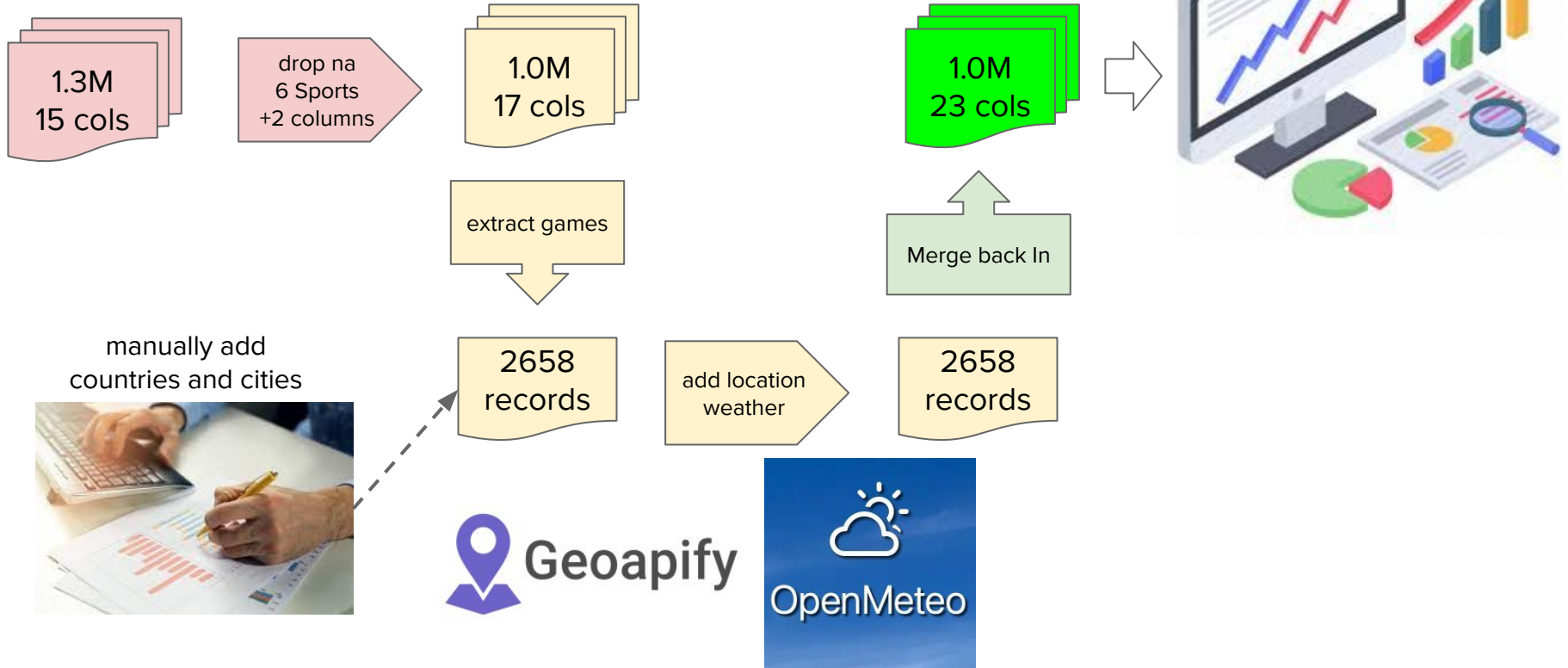
Betfair Dataset

- One Weeks Worth From Early September 2014
- 321 MB uncompressed file with 1.3 Million Data Rows
- 16 Features
- 23 Sports Taking Place Across The Globe

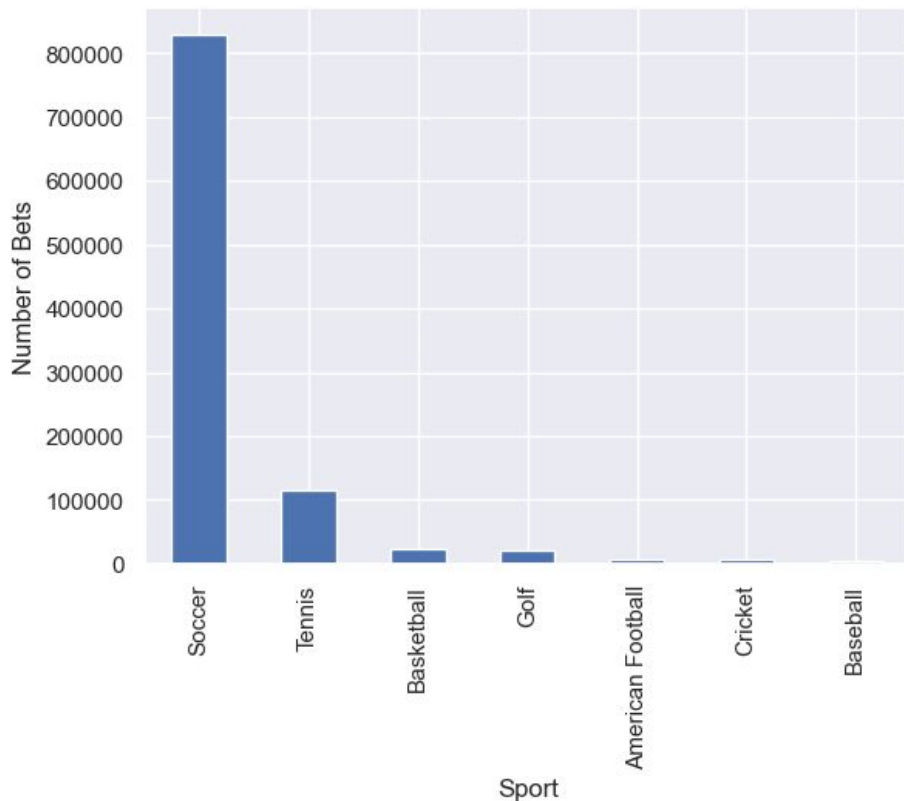
kaggle



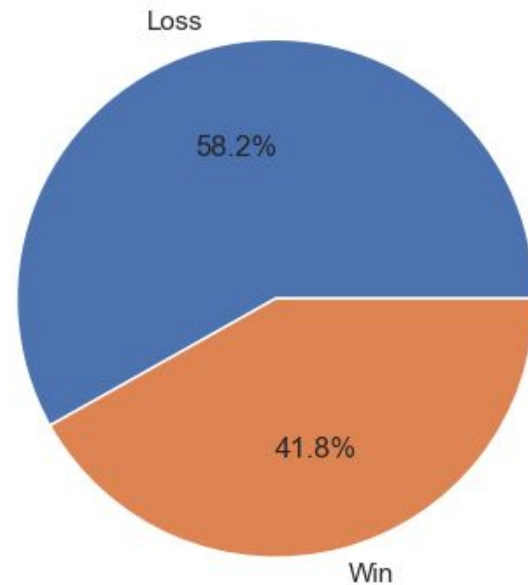
Data Cleaning/Transformation



Data Overview

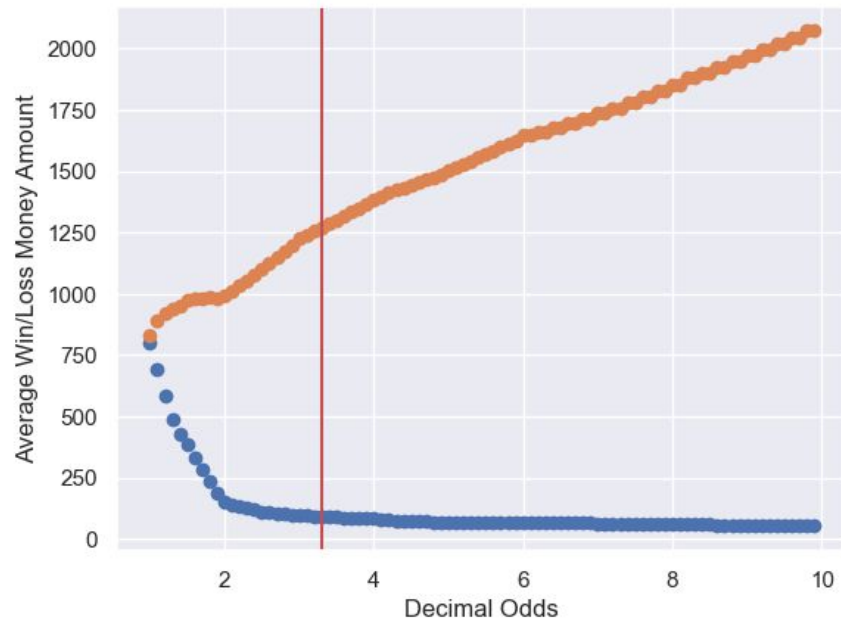
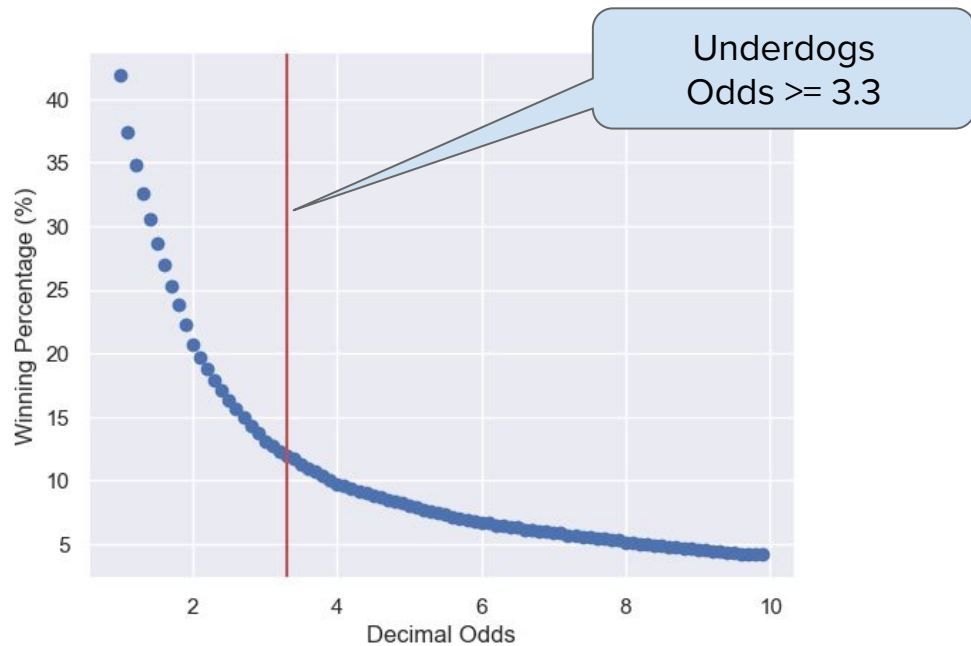


Percent Winning / Losing Bets

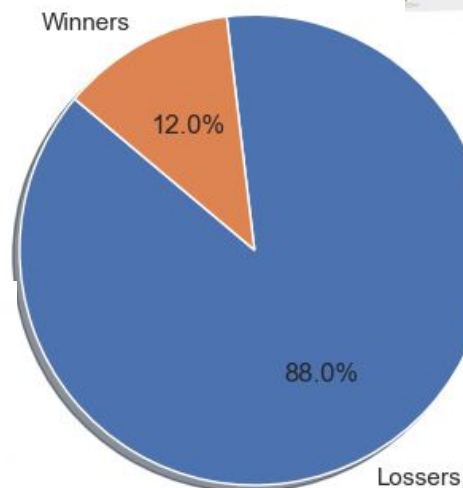
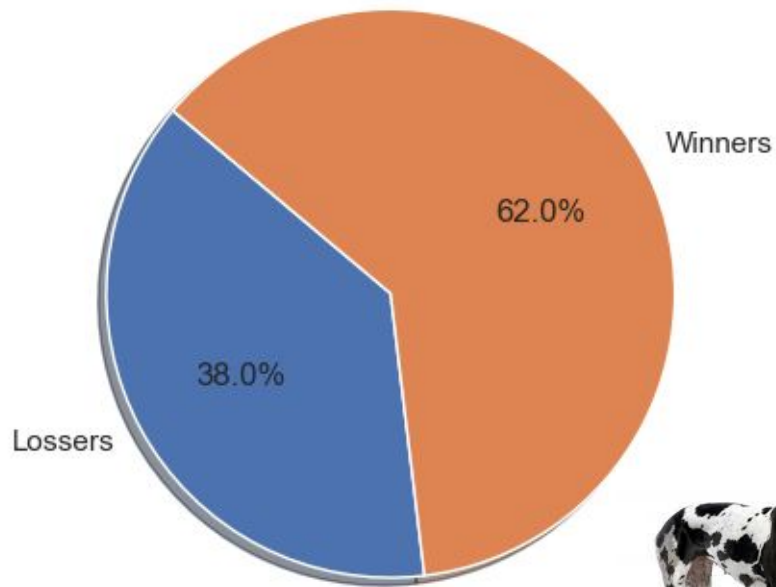


- Number of Games: **2658**
- Countries: **79**
- Number of Bets: **7.9M**
- Total Money Wagered: **\$806M**
- Total Money Won: **\$810M**
- Total Money Loss: **\$838M**

Winning vs Odds



Favorites vs Underdogs (odds > 3.3)



Why Bet On Underdogs?



STAKE (£)

100

ODDS

1.00

COMMISSION (%)

2

LIABILITY: £0.00

COMMISSION: £2.00

PROFIT: £98.00

RETURN: £98.00



STAKE (£)

100

ODDS

10

COMMISSION (%)

2

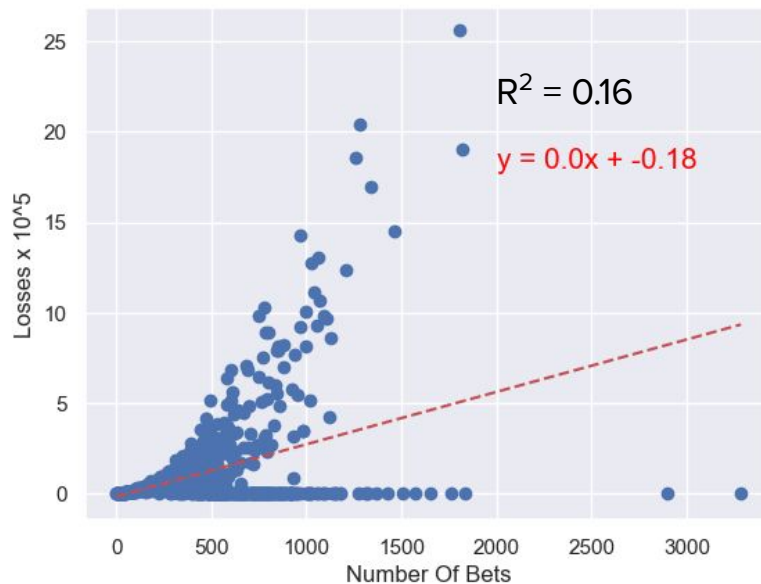
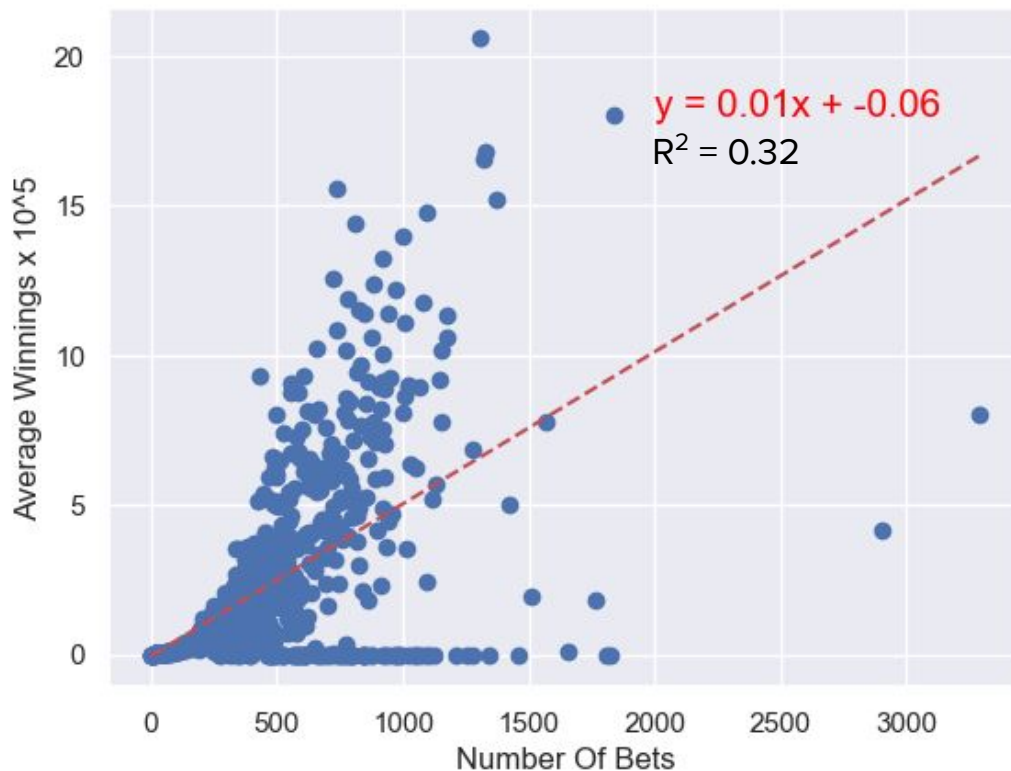
LIABILITY: £900.00

COMMISSION: £2.00

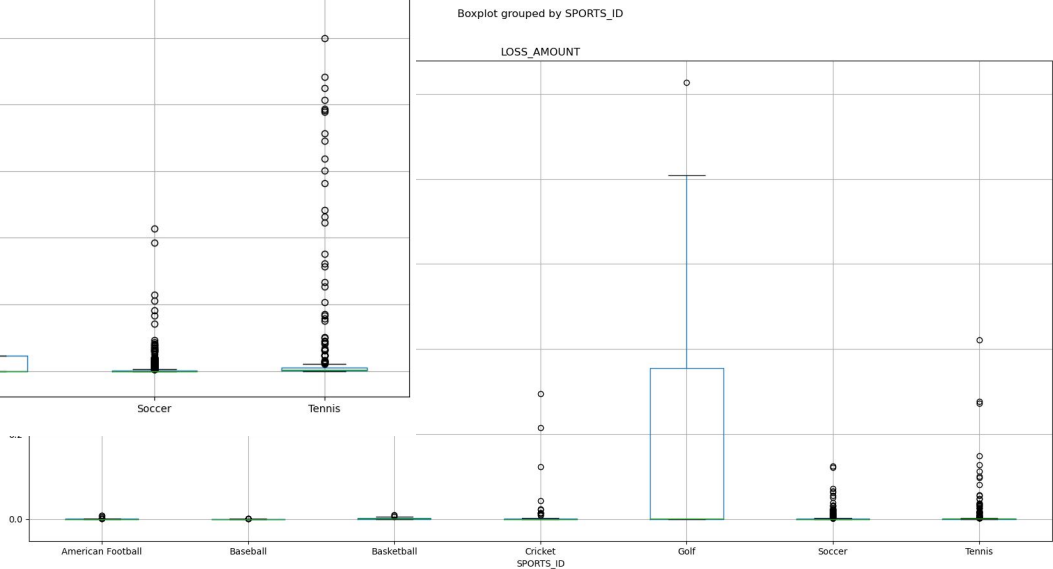
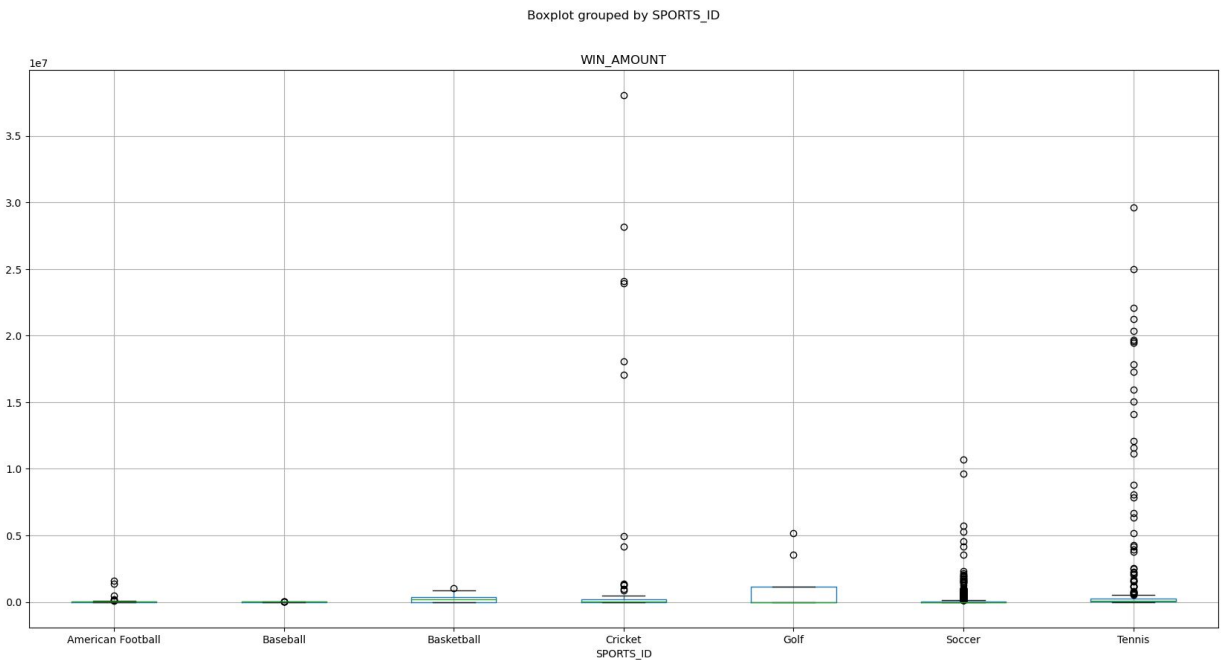
PROFIT: £98.00

RETURN: £998.00

Number Of Bets vs Average Win/Loss

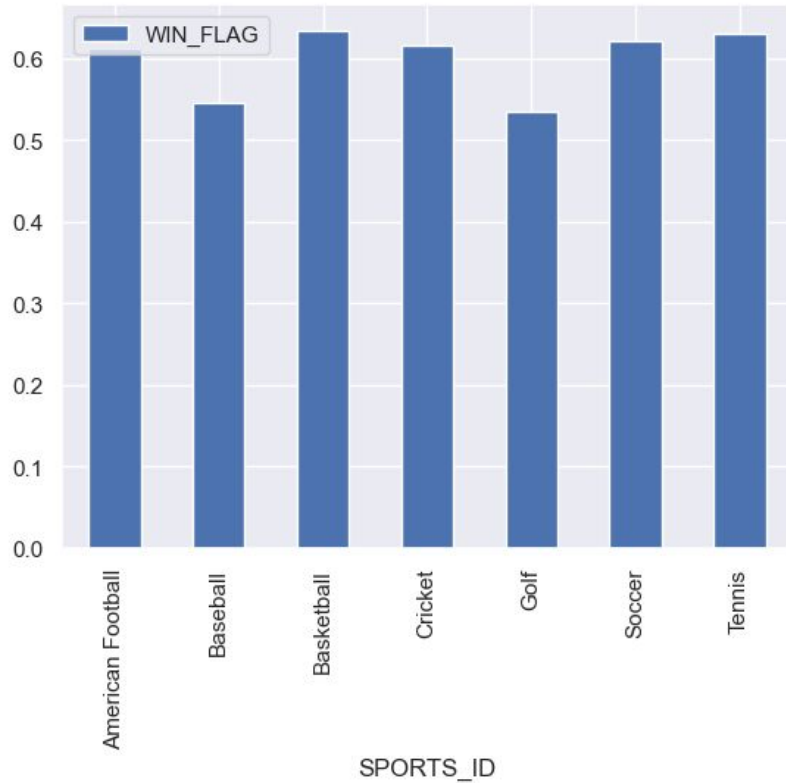


Sport Type Vs Win/Loss Amounts

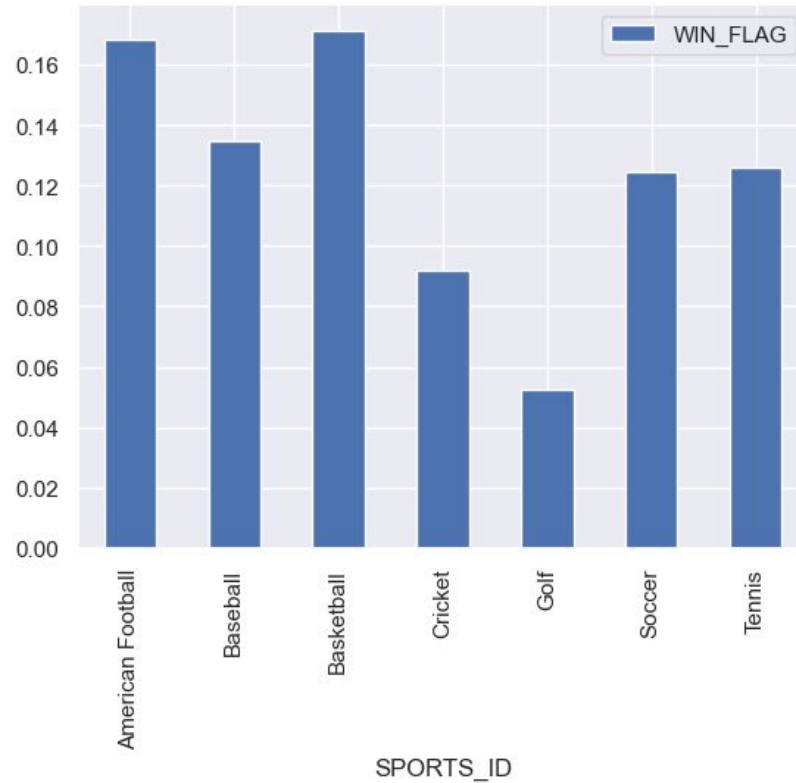


Sports vs Winners

Favorites

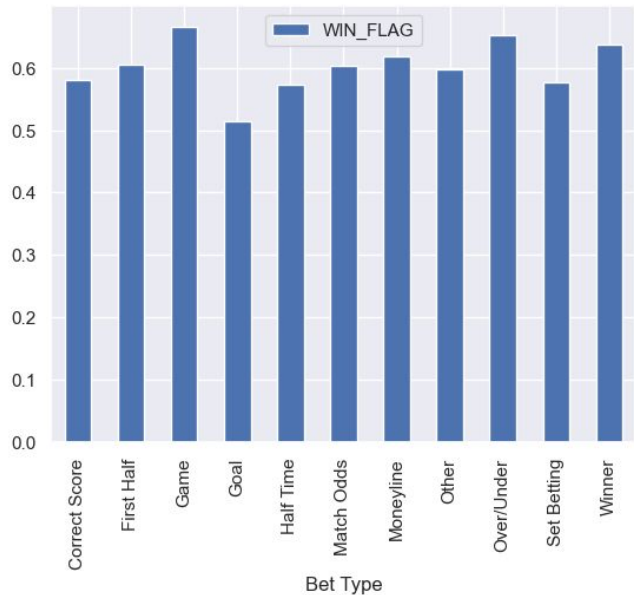


Underdogs

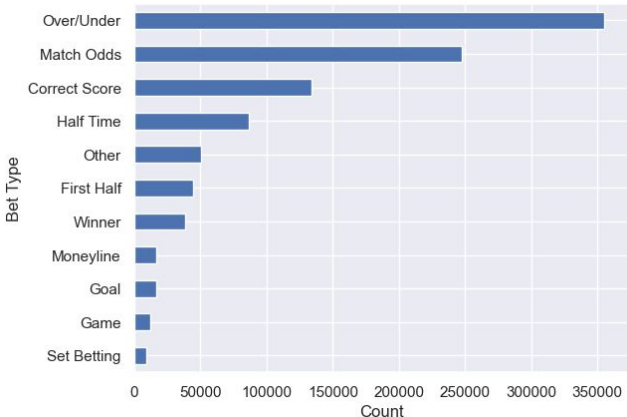
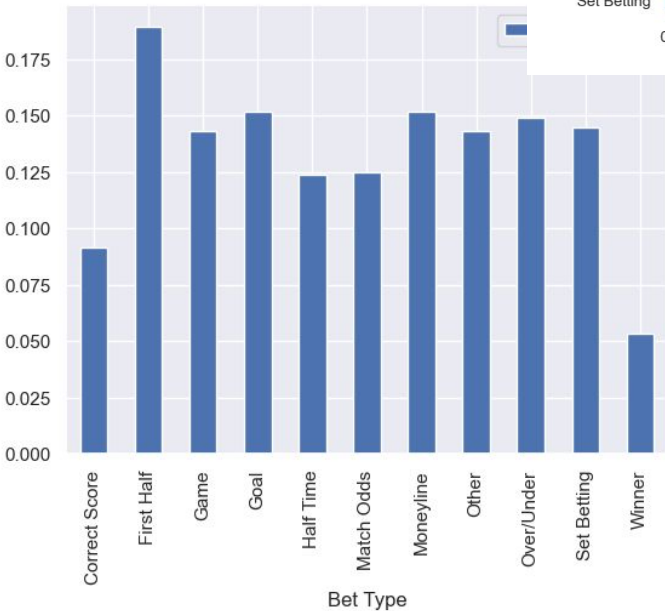


Bet Type vs Winners

Favorites

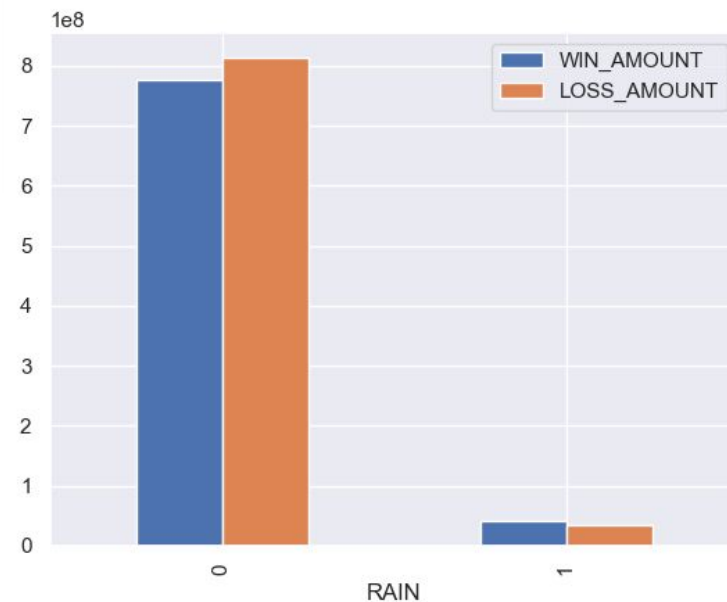
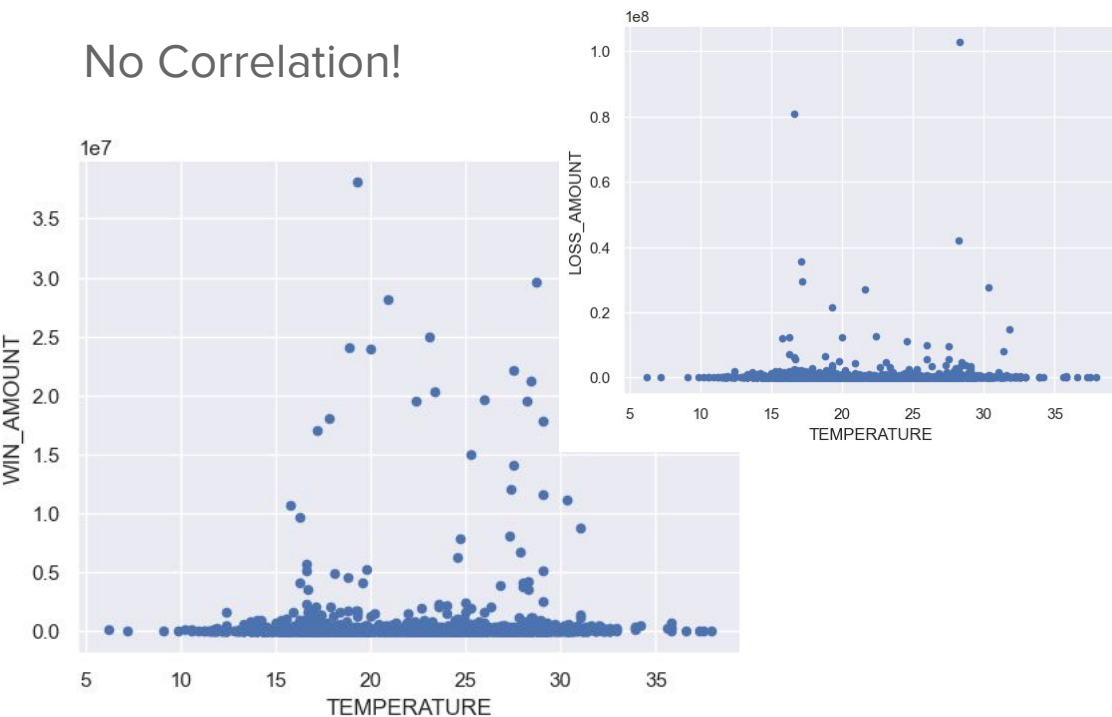


Underdogs

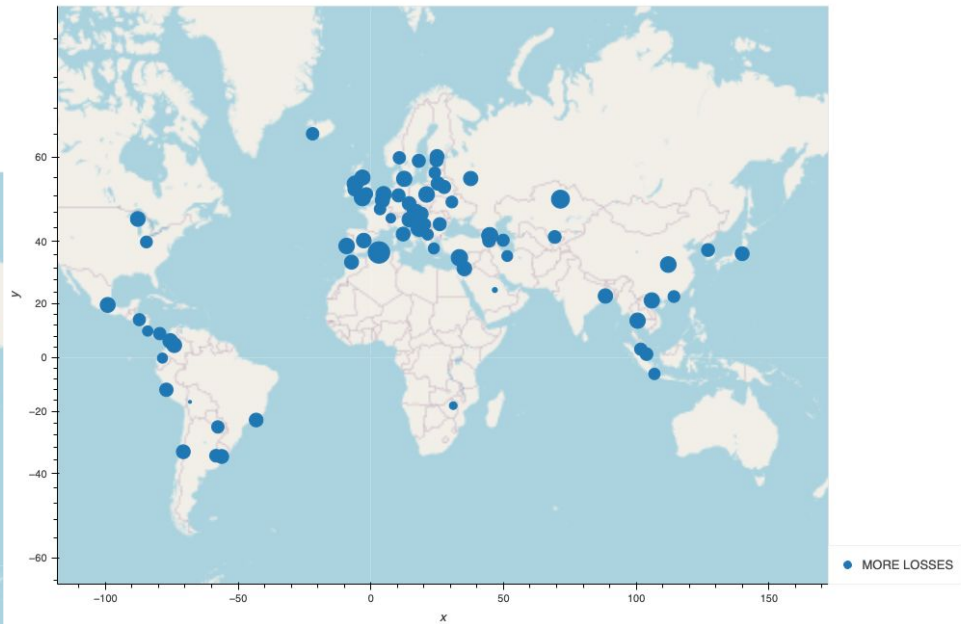
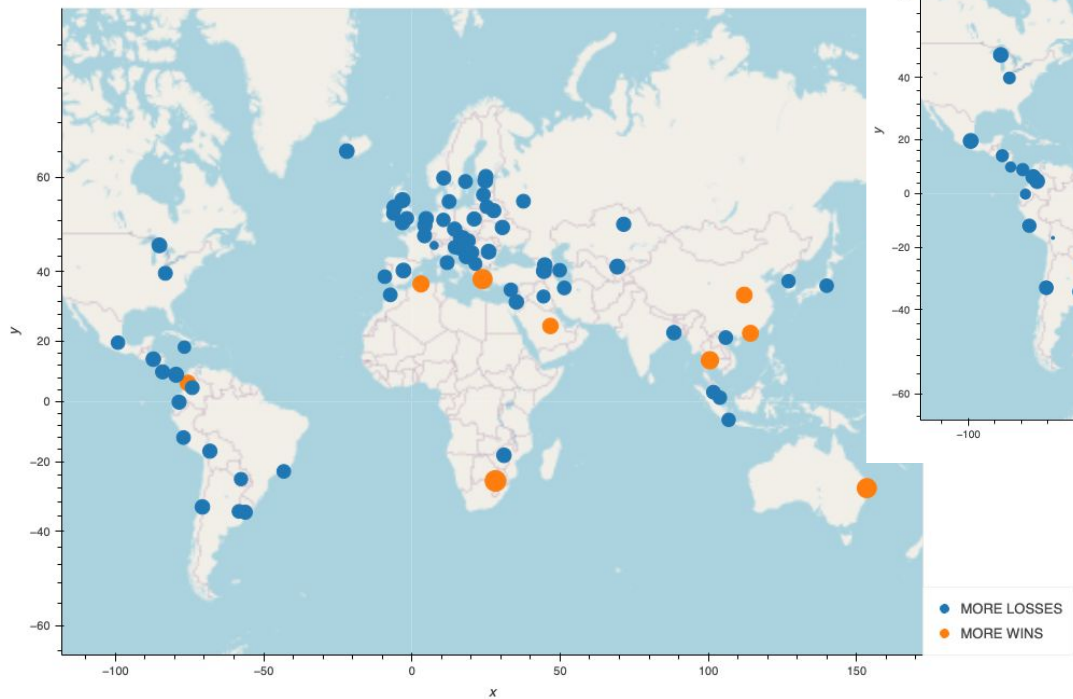


Weather vs Winning/Losing

No Correlation!



Location Affect?



Underdogs

Conclusion

- Underdog Bets Are Losing Propositions
- Statistical Significant Difference By Sports vs Money Won/Lossed
- No Correlation between Weather/Location To Increase Chance of Winning Underdog Bets
- Need Bigger/More Recent Datasets and Machine Learning Models

