Predicting NBA Game Scores: Sportsbetting

William Chen

Problem Statement

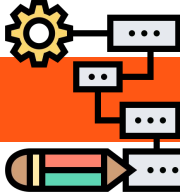| 1	2	3	4
Data Extraction	**Predict Score**	**Compare with Sportsbook**	**Place Bet**

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Background

Market Share

46.6%
FanDuel

20.2%
DraftKings
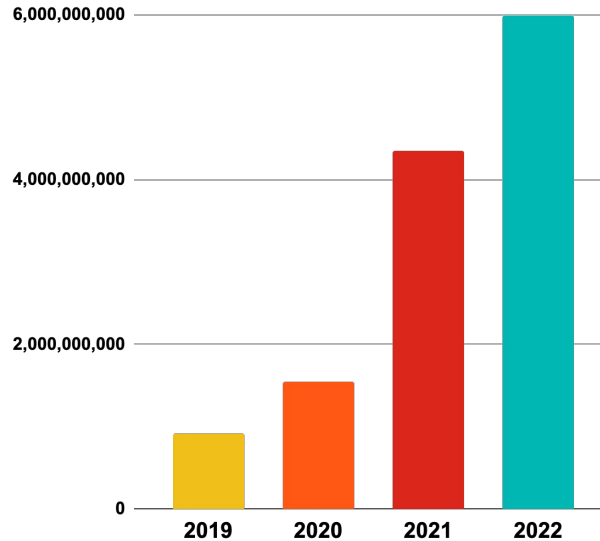
14.1%
BetMGM/Borgata

7.5%
Caesars/William Hill

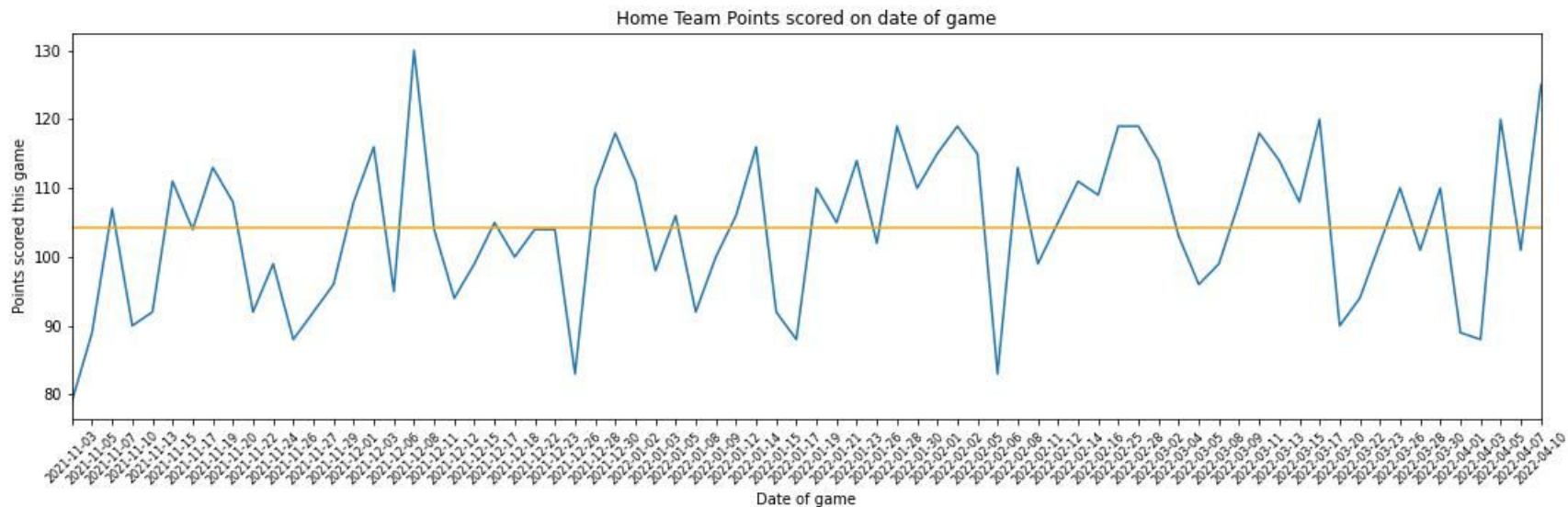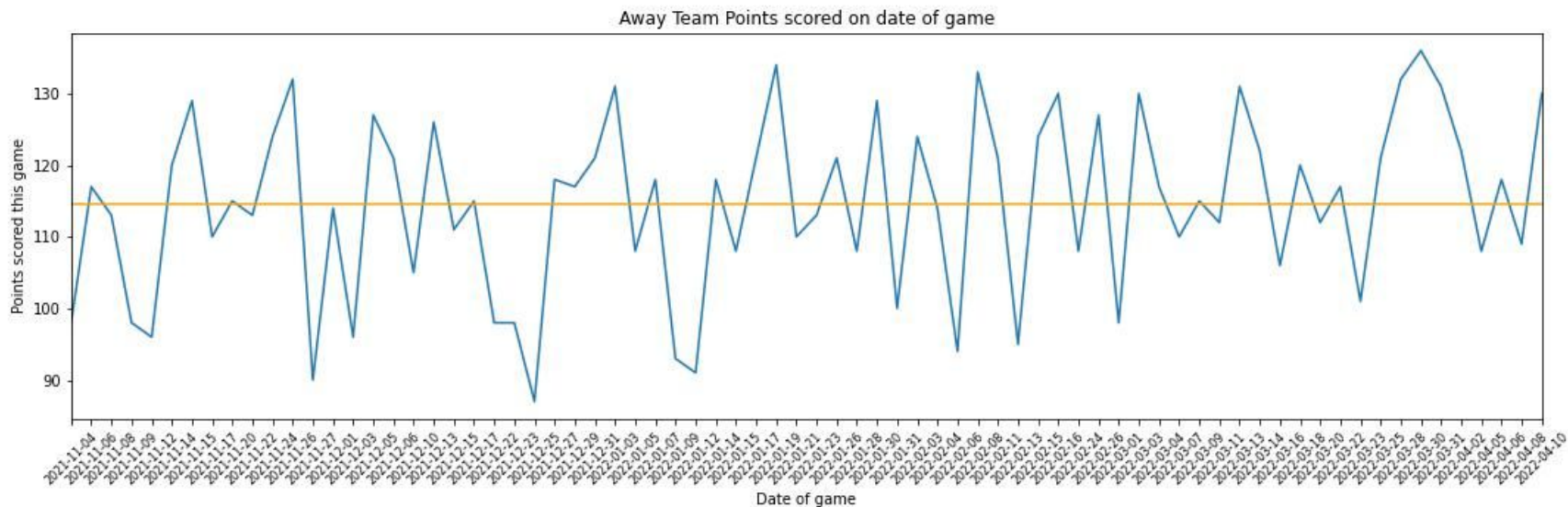# Datasets & EDA

Home Team Points Scored

Home Team Points scored on date of game

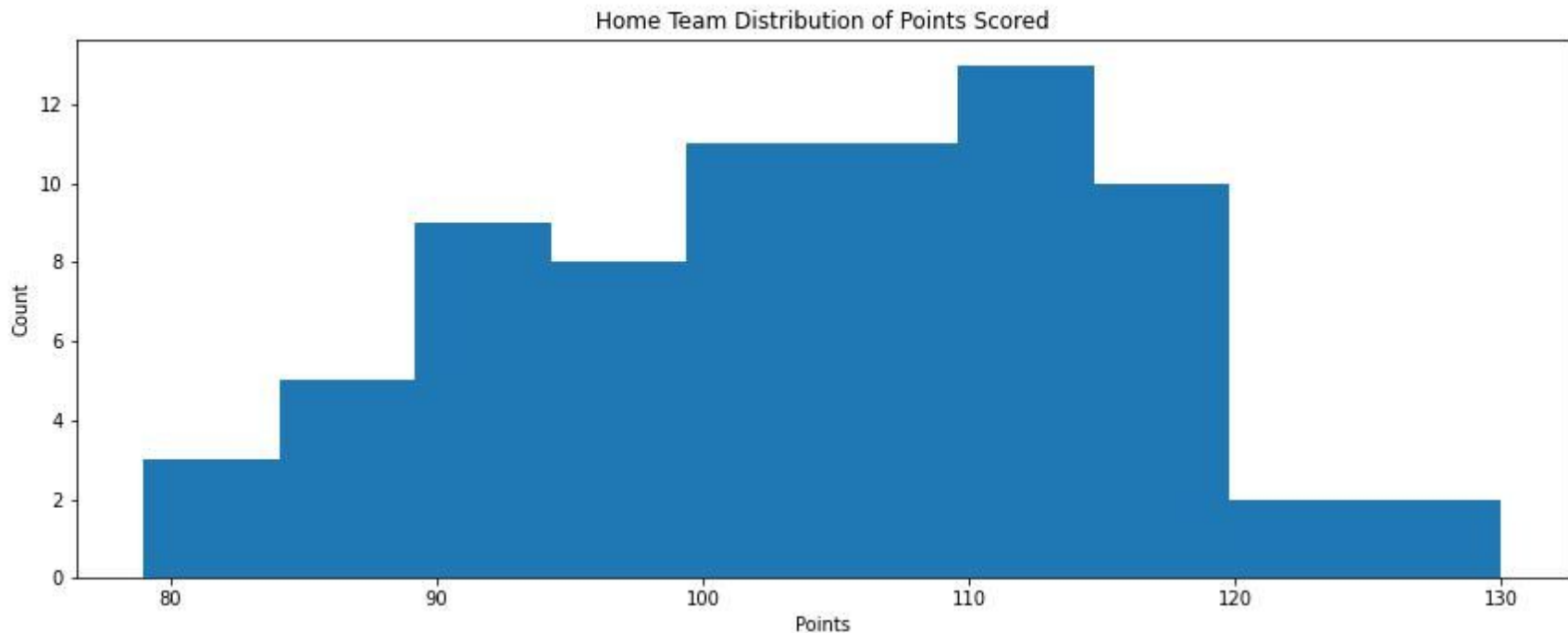# Datasets & EDA

Away Team Points Scored
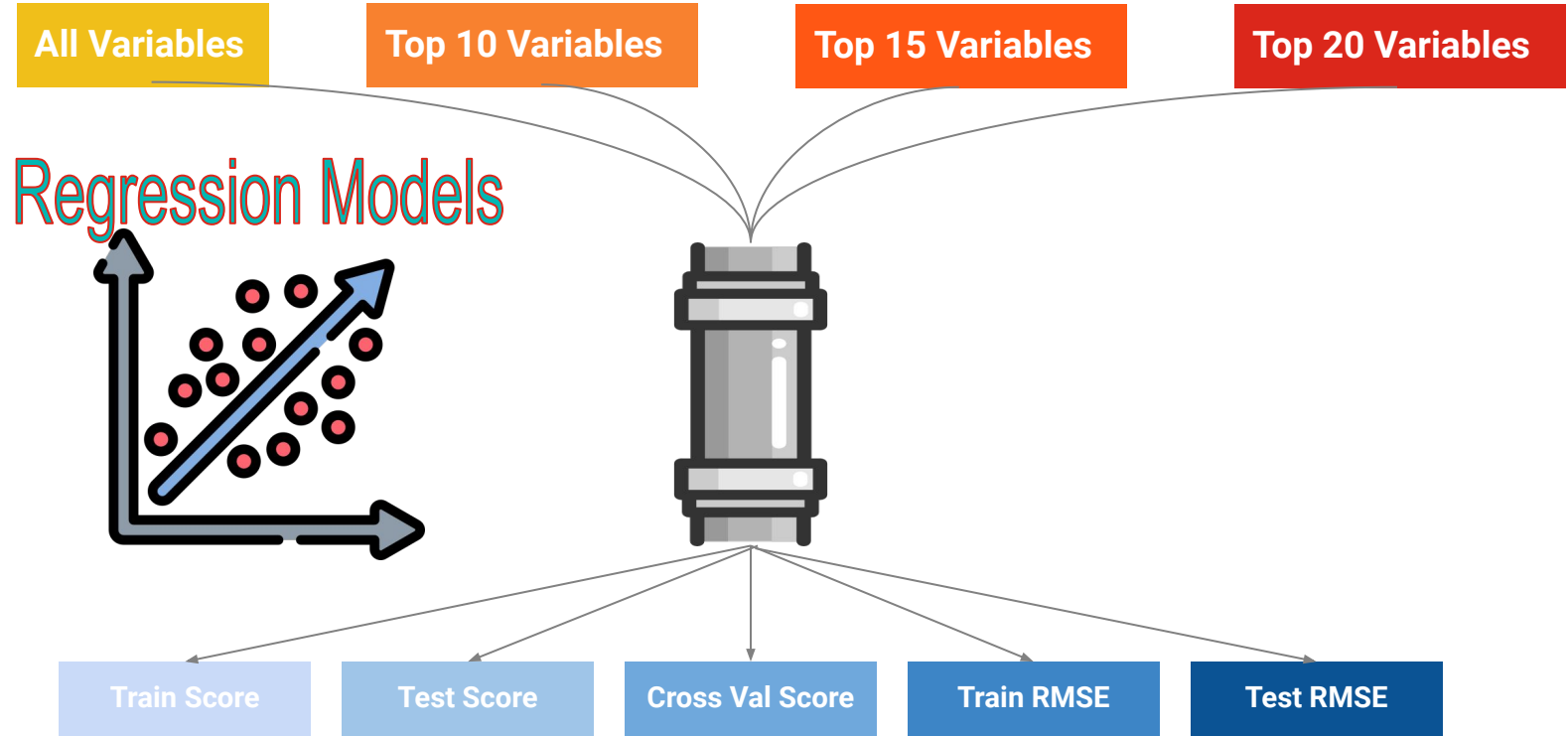
Datasets & EDA

Home Team Points Scored Distribution

Home Team Distribution of Points Scored

Datasets & EDA

Home Team Points Scored Distribution

Away Team Distribution of Points Scored

Modeling

All Variables

Top 10 Variables

Top 15 Variables

Top 20 Variables

Regression Models

Train Score

Test Score

Cross Val Score

Train RMSE

Test RMSE
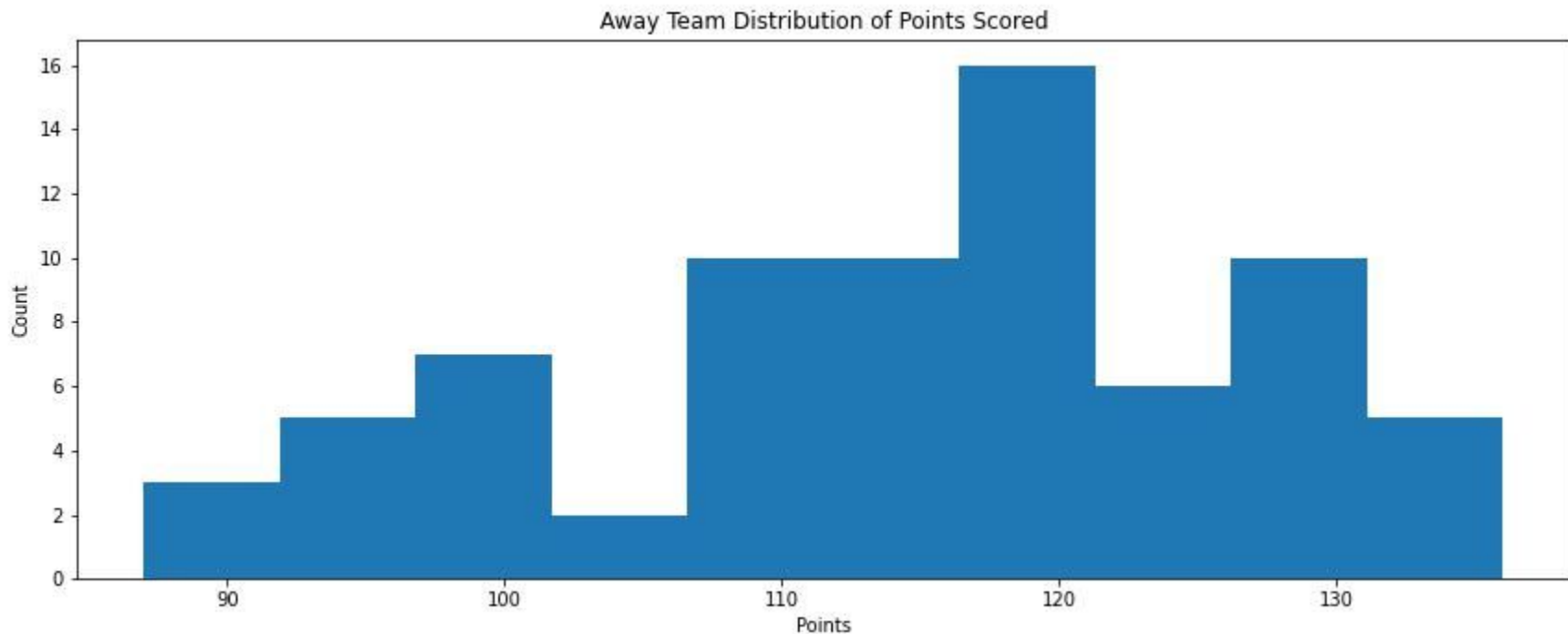
Predictions

Predicted Score	Pre-Live Over/Under	Bet Placed	Result (Total)	
233	231.5	Over	226	Kings 103 FINAL 123 76ers / Kings 14-12 / 76ers 15-12
222	232.5	Under	239	Warriors 111 FINAL 128 Bucks / Warriors 14-14 / Bucks 20-7
218	224	Under	208	Suns 97 FINAL 111 Rockets / Suns 16-12 / Rockets 9-18
220	232.5	Under	221	Pelicans 100 FINAL 121 Jazz / Pelicans 18-9 / Jazz 16-14
251	235.5	Over	240	Celtics 122 FINAL/OT 118 Lakers / Celtics 22-7 / Lakers 11-16

Conclusion

Model Scores

Regression vs Classification

Specific Team/Player

Unpredictability
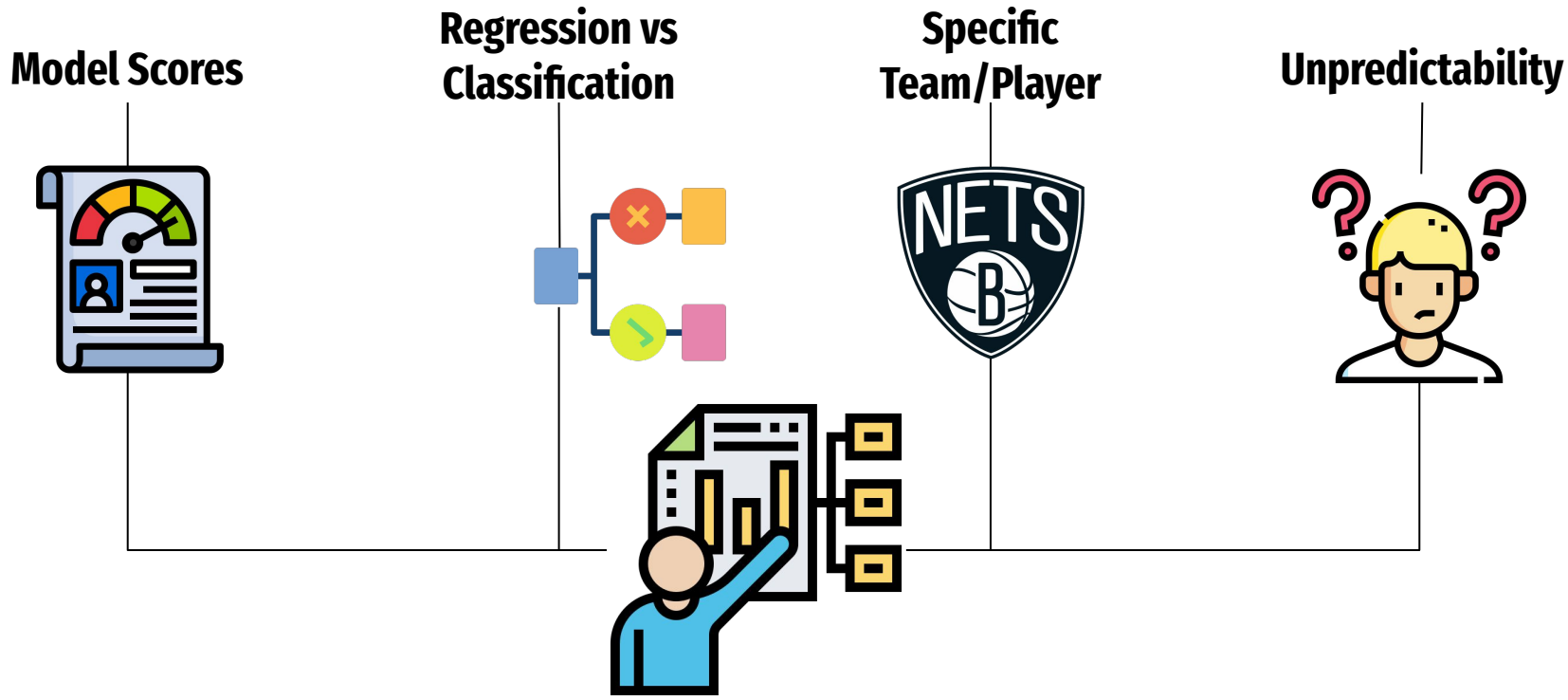
Thank you for listening!
Any Questions?

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