GETTING UNDER AND OVER VEGAS NFL LINES

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Outline

Business Problem

Data

Model

Conclusion

Future Work

Business Problem

Vegas has advanced models used to create their lines

Both average and professional gamblers can struggle to beat Vegas

Create a program in which all someone needs is basic game data

Generate an accurate prediction based off that data

Data

- NFL games, stadiums and teams 1978-2021

- Handling missing data

- Engineering features

- Reviewing correlations

- Prepare for modeling

Modeling

Tree Based Model

54% Accurate

Conclusion

Model not ready as a finished product	Need more data on individual teams	Evident that beating Vegas at their own game is difficult
• Only negligibly better than guessing	• Passing, rushing, defense, etc.	• Whole teams of people who's job is to create these models

Future Work

- Individual team data

- More year-by-year statistics

- New modeling techniques

- Better engineering of features

Thank you!!!

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