IPL Analysis and Prediction

Bhanuprakash Thota | Advisor Dr.. Charles Hoot
Applied Computer Science | NorthWest Missouri State University

Introduction & Goals

- IPL is an India Premier League cricket match that occurs every year which results in high income gain for the BCCI.
- Predicting the next IPL winner by taking the data from past 10 years.

Materials

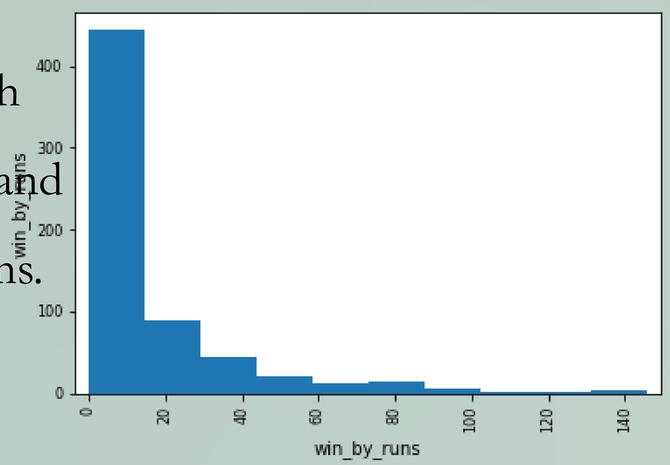
Features:

1. Team1 2. Team2
3. winner 4. toss_decision

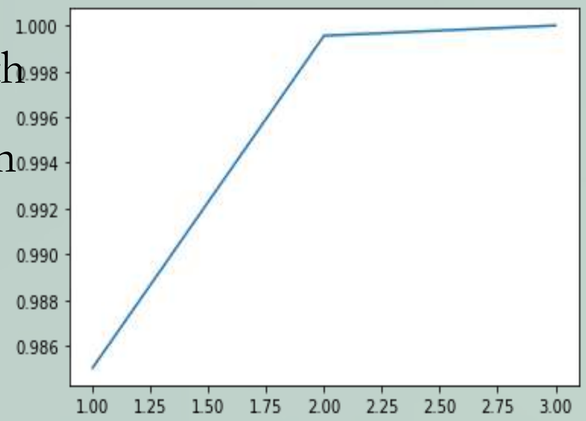
- I performed multiple regression techniques including RF, gradient and Linear Regression to train the model.
- Used SVM with grid search for event classification.

Results

This graph is a bar graph Comparing win by runs and Win by wickets of a teams.



This graph is a line graph with Dimensional analysis between Winner and toss decision.



Conclusion

- Predicted the next year IPL winner before auction among all the teams.
- The Graphical representation show that most teams has won batting first and they will win by x amount of wickets.
- Using Random Forest Classifier accuracy of 86 % is obtained.
- Accuracy of 70 % is achieved with neural nets which indicates good model.

Additional Resources

- https://www.kaggle.com/aadilmalik94/ipl-cricket-dataset?select=matches.csv
- https://www.kaggle.com/aadilmalik94/ipl-cricket-dataset?select=matches1234.csv

Acknowledgment

Dr.. Charles Hoot

Further Information

- https://github.com/44-599-MachineLearning-S21/project-machine-learning-s21-BhanuprakashThota