DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Project work phase 1 (18CPS77)

"Analyzing and Predicting outcome of IPL Cricket Data "

By Batch 2021_CSE_29

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Overview of Project:

- In the recent years the analytics is being used in the field of sports to predict and draw various insights.

- Our works develops some crucial prediction using various machine learning models like Logistic Regression,Linear Regression.

- In today's date, Data analysis is need for every data analytics to examine the sets of data to extract the useful information from it and to draw conclusion according to the information.

Overview of Project:

- The past seven years data of IPL containing the player details, match venue details, teams,ball to ball details is taken and analyzed to draw various conclusion which helps in improvement of player's performance.

- Various other features such as how the venue or toss decision influenced the winning of the match in last seven years are also predicted.

Project goals

▶ Acquiring, understanding and visualizing the previous year data set and take possible outcomes.

▶ Build a predictive model to predict the scores that particular batsmen would score in the coming ipl seasons.

▶ Predicting the outcome of an ipl match between two teams.

Project applications

- Online fantasy games.

- Used by team analyst.

- To display the statistics during ongoing matches by sports channels.

- IPL auctions.

Requirement specification

▶ Minimum Hardware Requirements:

1. Processor type : intel i5 processor or higher

2. Ram : 8 GB

3. Hard Disk : 256GB or more

▶ Minimum Software Requirements:

1. Web Browser-Google Chrome

2. jupyter notebook

3. Python IDLE

4. Operating System: Windows,Mac OS ,Linux.

Data sets

- https://www.kaggle.com/nowke9/ipldata

- https://www.kaggle.com/patrickb1912/ipl-complete-dataset-20082020

- https://www.kaggle.com/ramjidoolla/ipl-data-set?select=most_runs_average_strikerate.csv

```
matches = pd.read_csv(r'C:\Users\paras\Desktop\desktop\Project\ipl\match_data.csv')
```

```
matches.head()
```

	id	season	city	date	team1	team2	toss_winner	toss_decision	winner	eliminator	...	overs	player_of_match	venue	umpi
0	419164	2010	Mumbai	2010-04-24	Royal Challengers Bangalore	Deccan Chargers	Deccan Chargers	bat	Royal Challengers Bangalore	NaN	...	20	A Kumble	Dr DY Patil Sports Academy	Koert
1	419131	2010	Delhi	2010-03-29	Delhi Daredevils	Kolkata Knight Riders	Delhi Daredevils	bat	Delhi Daredevils	NaN	...	20	DA Warner	Feroz Shah Kotla	Haz
2	336021	2008	Mumbai	2008-05-16	Mumbai Indians	Kolkata Knight Riders	Mumbai Indians	field	Mumbai Indians	NaN	...	20	SM Pollock	Wankhede Stadium	Doctr
3	980931	2016	Pune	2016-04-22	Rising Pune Supergiants	Royal Challengers Bangalore	Rising Pune Supergiants	field	Royal Challengers Bangalore	NaN	...	20	AB de Villiers	Maharashtra Cricket Association Stadium	Gaffa
4	419163	2010	Mumbai	2010-04-22	Chennai Super Kings	Deccan Chargers	Chennai Super Kings	bat	Chennai Super Kings	NaN	...	20	DE Bollinger	Dr DY Patil Sports Academy	Doctr

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References

▶ https://www.slideshare.net/anmolarora5891/ipl-anaytics.

▶ https://data.world/vijayabhaskar/ipl-all-match-complete-data.

▶ Indian Premier League - https://www.iplt20.com/.

▶ Passi , Kalpdrum & pandey , Niravkumar.(2018) "Predicting Player's Performance in one day International Cricket Matches Using Machine Learning" 111-126. 10.5121/csit.2018.80310.

▶ I.P.Wickramasinghe et. Al, "Predicting the performance of batsmen in test cricket,"Journal of Human Sport & Exercise",vol.9,no.4,pp.744-751,May 2014.

THANK YOU