1 INTRODUCTION

1.1 Overview

This paper describes an image-based agent's pose estimation method for supporting experiments on cricket-micro mobile robot interactions. Crickets modify their behavior selection tendency as a result of experience and the context based on the interaction with other crickets. Such a behavior selection mechanism with a tiny brain is a typical example to understand the adaptability of animals.

1.2 Purpose

Pose estimation is one of the issues that have gained many benefits from using state-of-the-art deep learning-based models.

Human pose, hand and mesh estimation is a significant problem. · A Human Pose Skeleton represents the orientation of a person in a graphical format. · Implementing in the Domain of Cricket

2 LITERATURE SURVEY

2.1 Existing problem

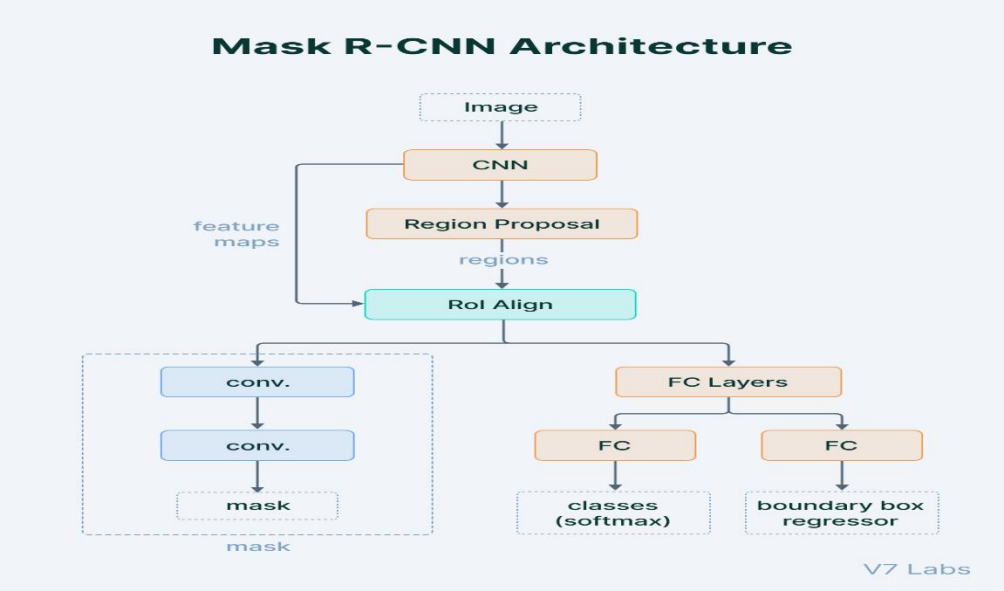
In the existing approach the analysis given just for upcoming matches for upcoming by their self without analyzing more a past data's. while using with onpast data no one given a diagrammatic representation about data and its outputwhat are things need by public. More often the existing problem not clearly givensolution to their problems.

2.2 Proposed solution

As a basis of measuring the process performance in existing problem, the measurement of data and its output accuracy is accurate with more dataset testing has shown that the proposed system produces relatively accurate indications of actual performance of construction projects. Using of diagrammatic representation reach the public easily and also attract easily.

3 THEORITICAL ANALYSIS

3.1Block diagram



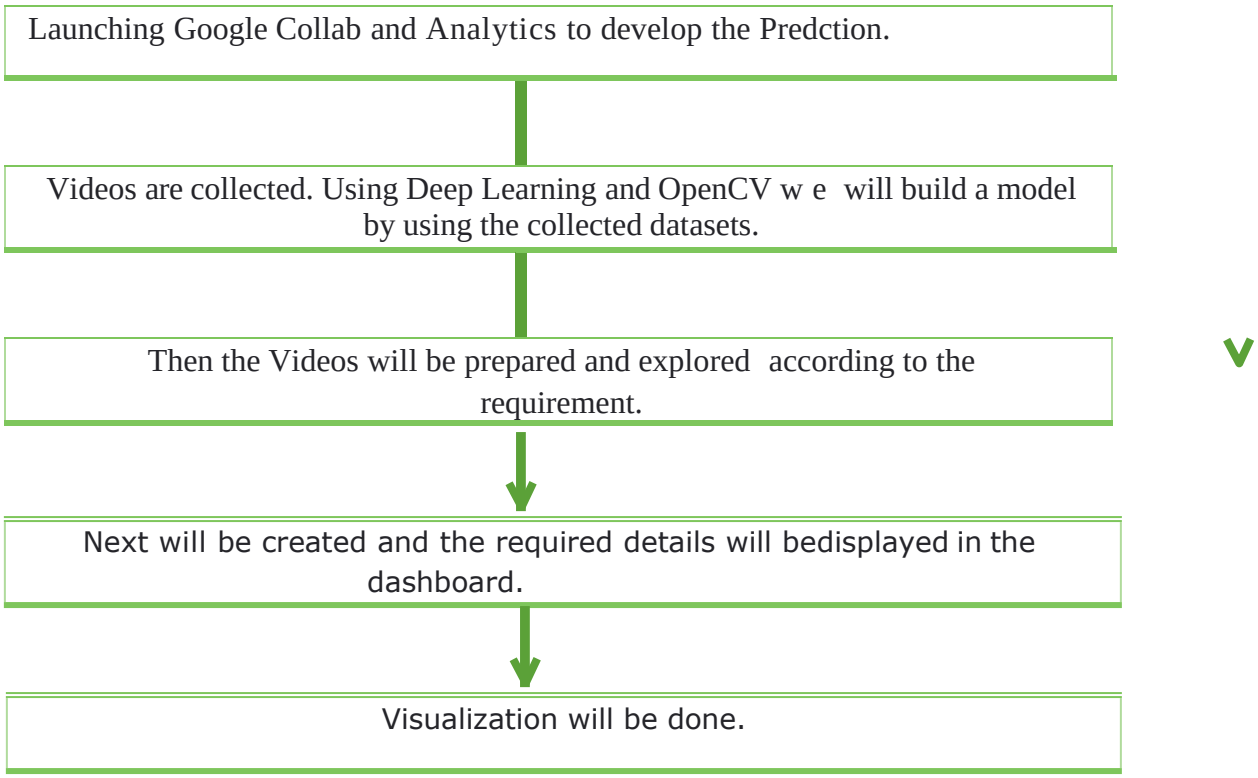
3.2Hardware / Software designing

- Deep Learning-CNN
- OpenCV
- Watson Studio
- Media pipe.
- Google Collab

4 ·EXPERIMENTAL INVESTIGATIONS

- This method can be used by Cricket Association Boards and Sports Analyst for recognizing the pose of a player and at which point he is weak and which part of the body helps him to give him a edge up in his performance.
- Analyzing pose of a cricketer while Batting, Fielding or Keeping will help in analysingscores and future performance of the team

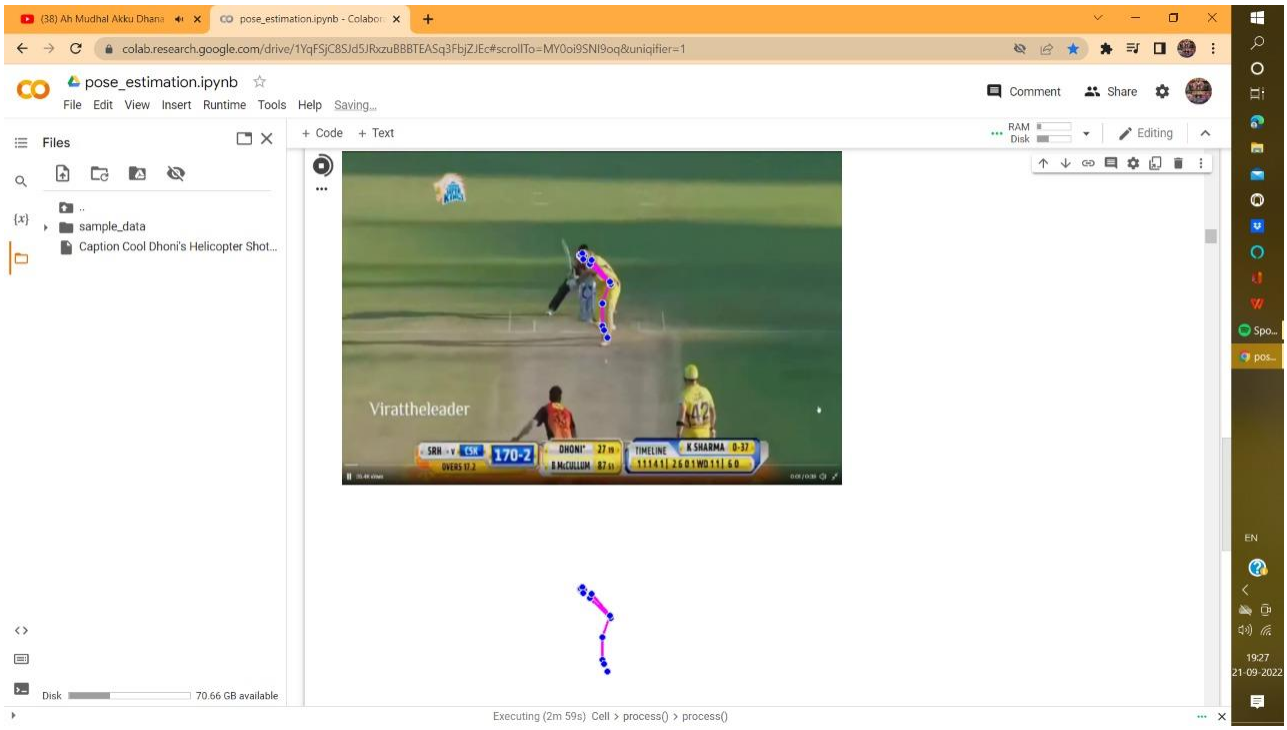
5FLOWCHART

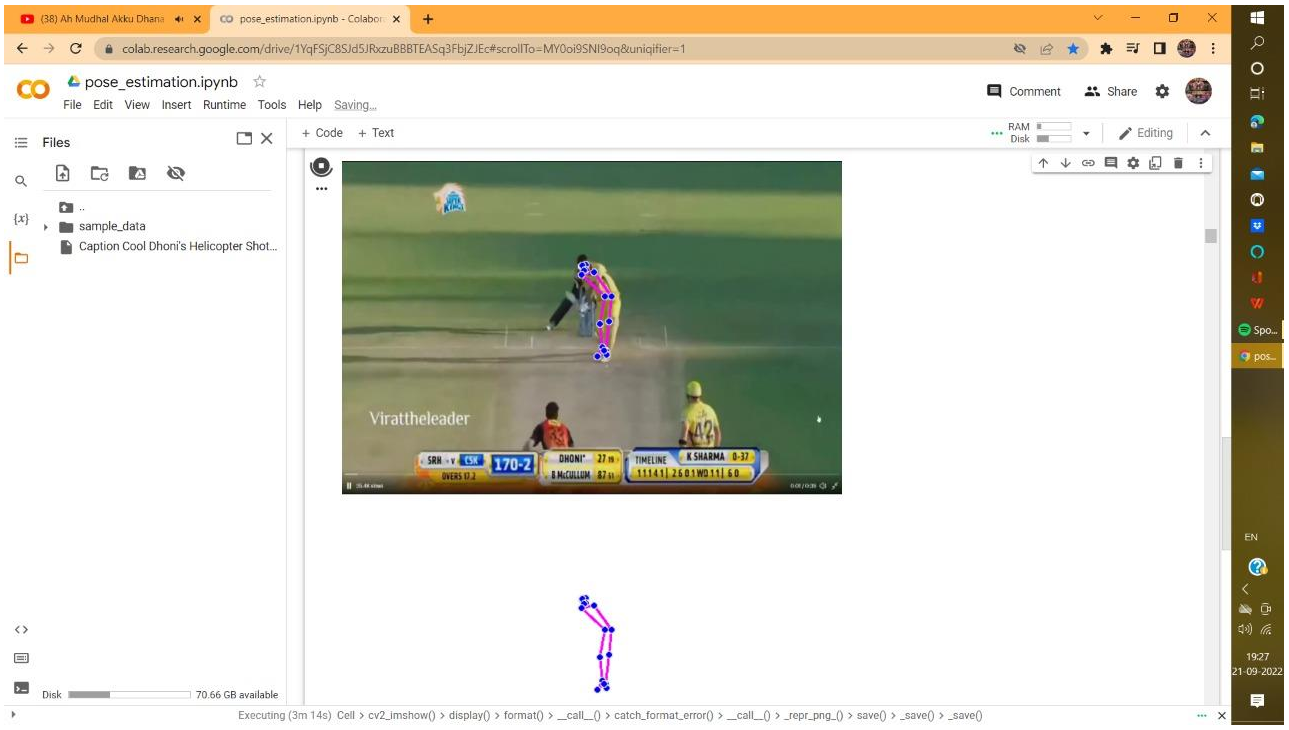

Launching Google Collab and Analytics to develop the Predction.
Videos are collected. Using Deep Learning and OpenCV w e will build a model by using the collected datasets.
Then the Videos will be prepared and explored according to the requirement.
Next will be created and the required details will bedisplayed in the dashboard.
Visualization will be done.

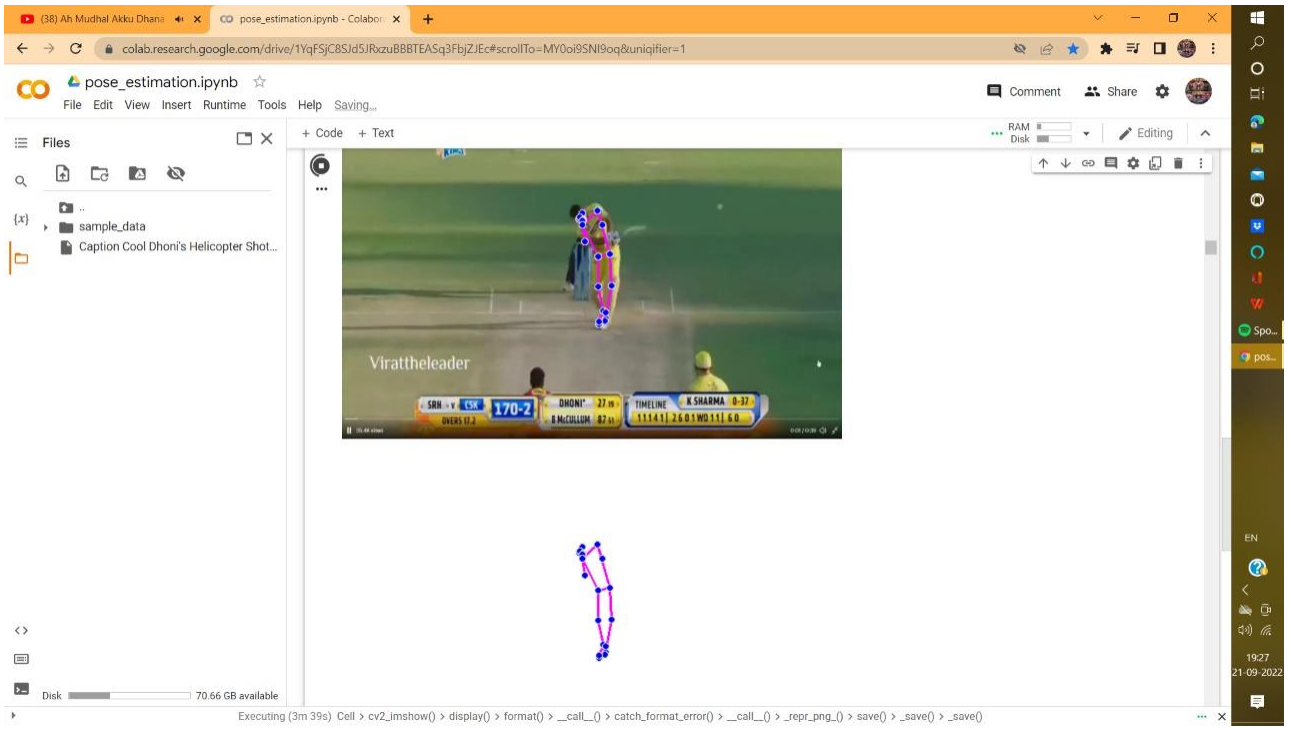
5 RESULT

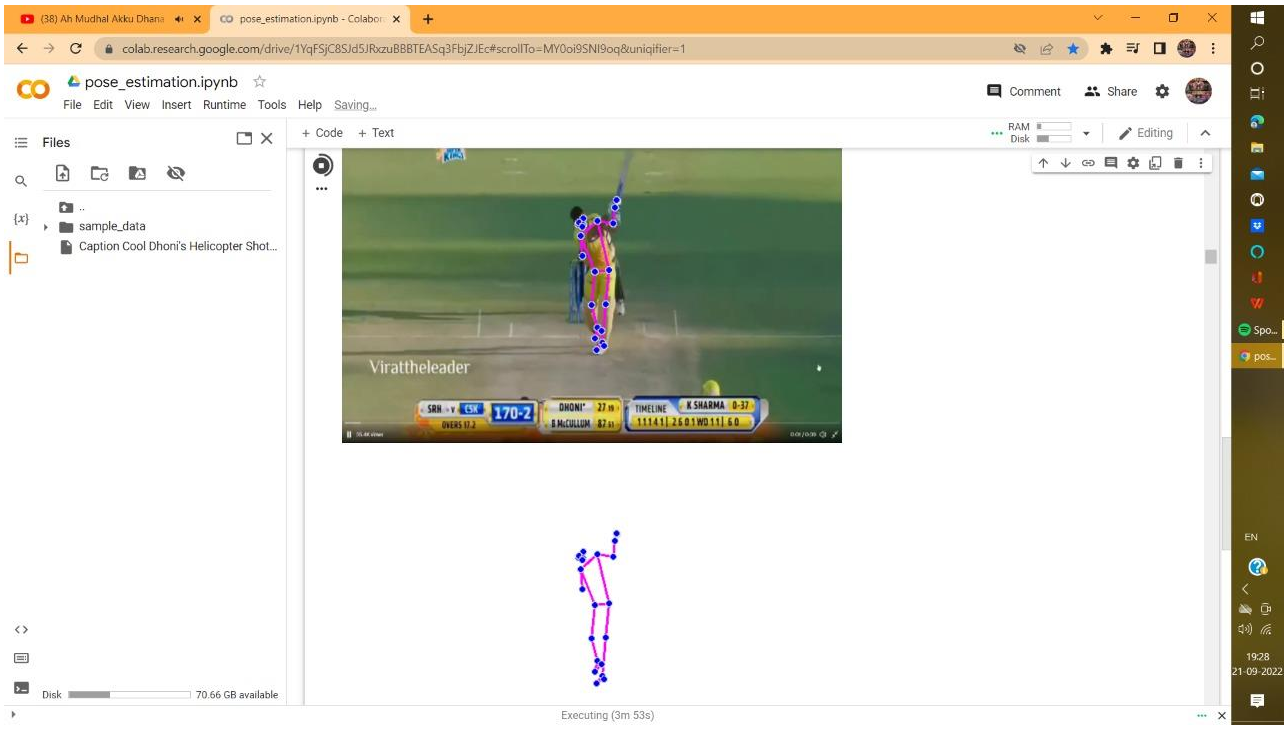
The objective of this solution is to create a dashboard that visualizes the following capabilities and also forecasts the future results

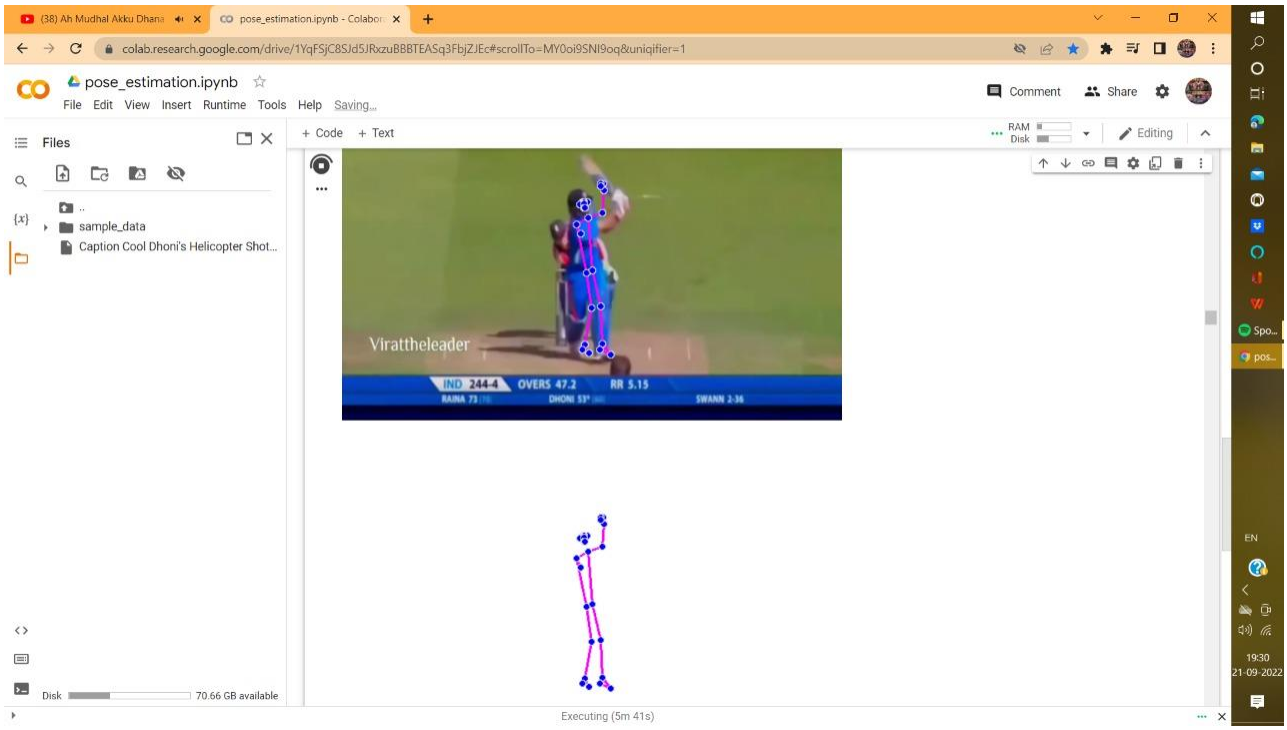
- Improve the accuracy, you can play around with different hyperparameters like increasing the number of hidden layers in the model.
- Changing the optimizer, changing the activation function, increasing the number of epochs, and much more.
- I hope you are already familiar with the hyperparameter tuning for the neural networks do try them out at your end and share your performance in the comment section.
- So, this is how we can build a model to classify the shots using the pose of a player.

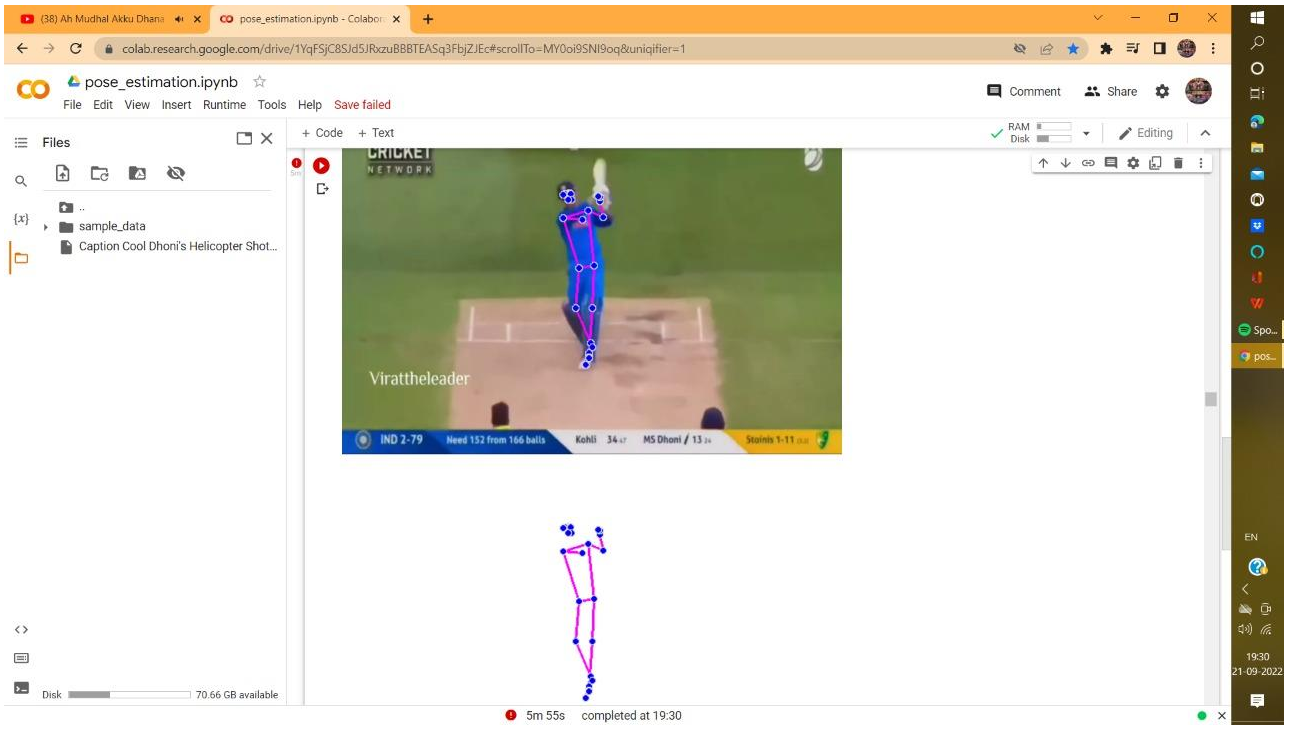


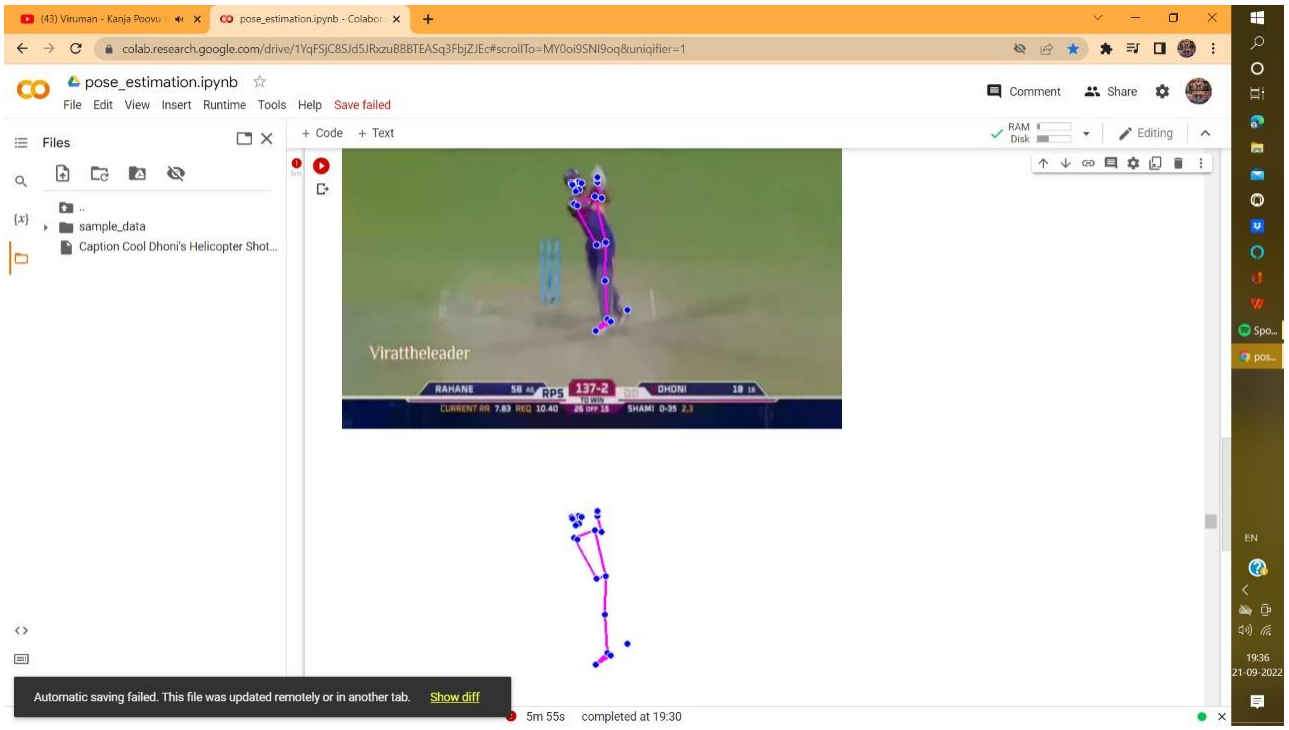

(38) Ah Mudhal Akku Dhana
pose_estimation.ipynb - Colabor
colab.research.google.com/drive/1YqFSjC8SJd5JRxzuBBBTEASq3FbjZJEc#scrollTo=MY0oi9SNI9oq&uniqifier=1
pose_estimation.ipynb
File Edit View Insert Runtime Tools Help Saving...
Comment
Share
Files
+ Code + Text
RAM
Disk
Editing
sample_data
Caption Cool Dhoni's Helicopter Shot...
Viratheleader
SRH v CSK
170-2
OVERS 17.2
DHONI* 27 m
B McCULLUM 87 st
TIMELINE
K SHARMA 0-37
1 1 1 4 1 | 2 6 0 1 WD 1 1 | 6 0
Disk
70.66 GB available
Executing (3m 14s) Cell > cv2_imshow() > display() > format() > __call__() > catch_format_error() > __call__() > _repr_png_() > save() > _save() > _save()
EN
19:27
21-09-2022

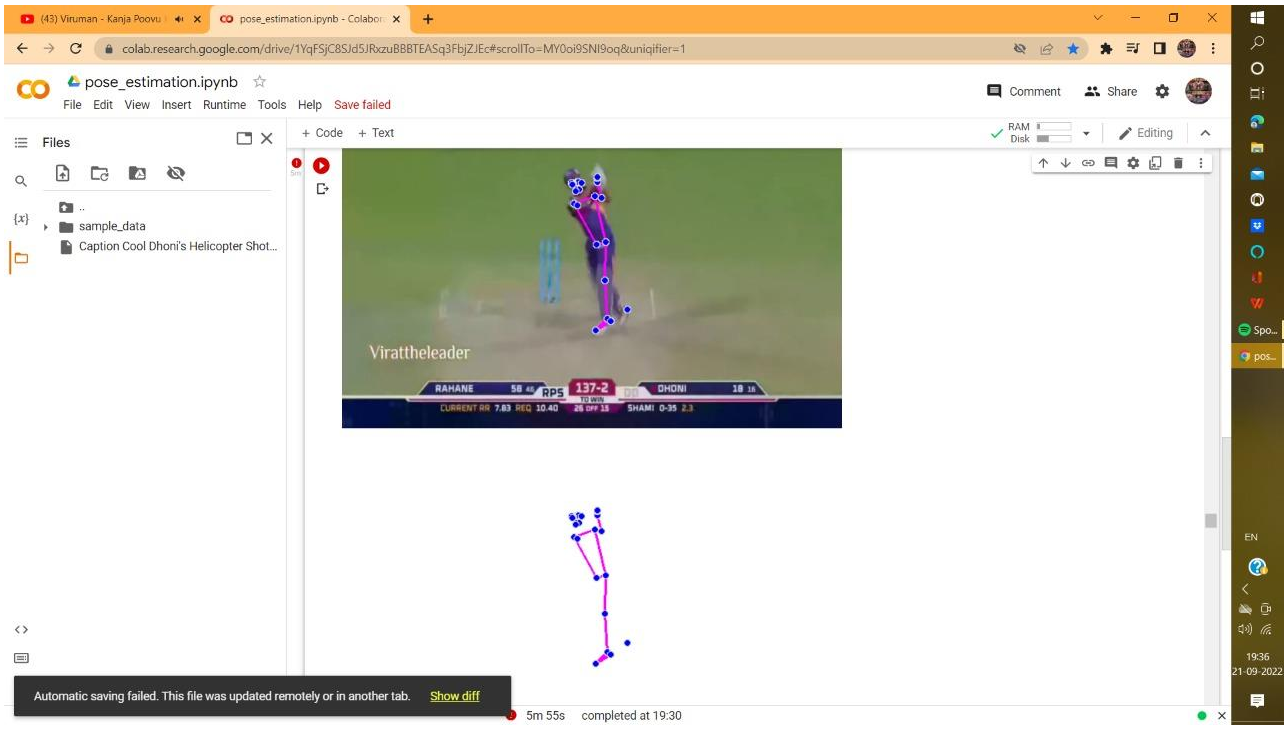

(38) Ah Mudhal Akku Dhana
pose_estimation.ipynb - Colabor
colab.research.google.com/drive/1YqFSjC8SJd5JRxzuBBBTEASq3FbjZJEc#scrollTo=MY0oi9SNI9oq&uniqifier=1
pose_estimation.ipynb
File Edit View Insert Runtime Tools Help Saving...
Comment
Share
Files
+ Code + Text
RAM
Disk
Editing
sample_data
Caption Cool Dhoni's Helicopter Shot...
Viratheleader
SRH v CSK
170-2
OVERS 17.2
DHONI* 27 m
B McCULLUM 87 st
TIMELINE
K SHARMA 0-37
1 1 1 4 1 | 2 6 0 1 WD 1 1 | 6 0
Disk
70.66 GB available
Executing (3m 39s) Cell > cv2_imshow() > display() > format() > __call__() > catch_format_error() > __call__() > _repr_png_() > save() > _save() > _save()
EN
19:27
21-09-2022


pose_estimation.ipynb
File Edit View Insert Runtime Tools Help Saving...
Comment
Share
+ Code
+ Text
Editing
Files
sample_data
Caption Cool Dhoni's Helicopter Shot...
Viratheleader
170-2
Disk 70.66 GB available
Executing (3m 53s)


pose_estimation.ipynb
File Edit View Insert Runtime Tools Help Saving...
Comment
Share
+ Code
+ Text
Editing
Files
sample_data
Caption Cool Dhoni's Helicopter Shot...
Viratheleader
IND 244-4 OVERS 47.2 RR 5.15
Disk 70.66 GB available
Executing (5m 41s)


pose_estimation.ipynb
File Edit View Insert Runtime Tools Help Save failed
Comment
Share
Editing
Files
sample_data
Caption Cool Dhoni's Helicopter Shot...
Viratheleader
IND 2-79
Need 152 from 166 balls
Kohli
MS Dhoni / 13
Stoinis 1-11
Disk 70.66 GB available
5m 55s completed at 19:30


pose_estimation.ipynb
File Edit View Insert Runtime Tools Help Save failed
Comment
Share
Editing
Files
sample_data
Caption Cool Dhoni's Helicopter Shot...
Viratheleader
RAHANE
RPS
137-2
DHONI
SHAMI 0-35
Automatic saving failed. This file was updated remotely or in another tab.
Show diff
5m 55s completed at 19:30


pose_estimation.ipynb
File Edit View Insert Runtime Tools Help Save failed
Comment
Share
Files
+ Code
+ Text
Editing
sample_data
Caption Cool Dhoni's Helicopter Shot...
Viratheleader
RAHANE
RPS
137-2
DHONI
Automatic saving failed. This file was updated remotely or in another tab.
Show diff
5m 55s
completed at 19:30

6 ADVANTAGES & DISADVANTAGES

ADVANTAGES:

Diagrammatical representations make people to understand easily aboutour solutions easily.

More reliable Data's.

Easy to understand about data.

Accurate information.

User Friendly.

DISADVANTAGE

There are no more modules in the proposed system.

7 APPLICATIONS

Using of Diagramatical representations people to understand easily aboutour solutions easily.

Using of Watson Studio and Google Collab makes creator easily update about future update Solutions need by people.

8 CONCLUSION

Thus, the project is created a dashboard which predicts the Indian Premier League that visualizes some of the capabilities like finding the team that won the greatest number of matches in the entire IPL, find the team that lost the greatest number of matches in the entire IPL, etc... andalso analyzed such vast amounts of data which will give great insights in forecasting match results, top scores, city hosted mostly and wicket takers.

9 FUTURE SCOPE

This model is used for predicting the outcome of the match based on historic data. During the extraction of features various features has been involved but most important features has been taken during prediction. Using a team structure in terms ofslots which defines most important slots contributing to match winning and a rankingsystem for the players through their performance statistics. We are using algorithms tocluster all players according to their performance and used to find interchangeable
player to a particular player.

10 BIBILOGRAPHY

1. https://www.kaggle.com/nowke9/ipldata?select=matches.csv