1. INTRODUCTION:

Olympic games is the biggest event for the player decause at its held for every four years, no matter what othe ressult is. Itanding in the biggest stage & competing with the greatest winals make the players feel proud. They chose to the higher, stronger and faster & thus are other special of the Olympics Games. When the evidlences sees the players believe the viewed and challenges heman beings dimitations.

Toolay, there are summer a winter games up to rare both games were sheld in the same year, best now they are istaged two years apare from each other.

1.1 Ourniers:

The modern Olympic games were relinstrated in Althers, Greece in 1896. While wedgening the athletic competition of the games, the modern Olympic movement provided organisations, principles and goals. The movement founded the International Olympic committee and this committee activelyworked to embody the principles and Edeas. The fine interlocking evings are globally recognized as the separately in massive is porting competition.

Overview of our Project:

me data used for this analysis is Olympaid Datases. 120 years of data. The dataset, originally its moderup of two files his athletes-counts esv & non-sugionsesv as seen on the sele 120 years of Olympic history;

athories and weller. This doctaset was chosen because it the seconds of augmpic models awards for different categories of sport, who caentruis that participate and the games, names, age, medals, weents, set. The elataset can also be a improve on their performance in the subsequent objections events.

1.2 Purpose:

Emportant points for the purpose of Olympic Grames:

- amalities therough amateur sports.
- + to cultivate human heings and contain but to world
- at no develop une ispirit q pateriotism & brotherhood us players.

Data analysis helps in sporets untilies evaluate the performance of their othlelis and assess the recentional necessarry to improve the team performance.

Visualization of slate over various factors culls provide us with the estatistical view of the various factors which lead to the evolution of the Olympic Games & Emprovement in the performance of the various countries / players over time. The goal of a data analystics estrategy is to help organizations make better decirions by understanding their data and using it to inform their decirion making.

Purformance measure for a country in Olympics can be predicted using their past performance. By predictly where were using maximum value scored by them in previous participate. The chance of wining gold in 2016 has been voluntified. If a person were a medal in an Olympics during a year, the chance of winning a medal in upcoming Olympics was predicted.

Out a unterprese & analysis is one of the

primary tasks in the field of big data analysis of players, improvement on the performance of various accentains and more. The type of analysis which us quite popular & suitable while analysis which us quite popular & suitable while analysis the popular of Olympies is Exploratory Data Analysis.

2.1 Enisting Problems:

Some of the existing problems of olympic Games werd. Infrastructive challenges: Hosting a mega event always involved when venewal & vergeneration. Let developing spreading stadia, accommodation & transportation networks its upon very and to be with a straight forward.

Olympics are becoming this sustainable and the winter games in begining was no except. The winter games measure snow on the ground for sport such as skipping & snowboarding but the

There cities beiging, Yanquing & Thoungjicka have and climate while smow reliability us declining globally because of planetary warming, Bejing is particular usuited for the winter games because it doesn't have much participation in the first plane.

2.2 Proposed Solution:

An approach is ruffered as a systematic path to seach approposed solution.

En: Data Sources -> collection of Row Data -> Duta process ->
clear dataset -> Emploratory Data Analysis ->
Visualizations -> Escatur Plata

Scatter Plata

Bubble plata

collect sports

Visualization

Particle swarm optimization

Conditions

Athletis performance

test set.

Athletis performance Presoliction model

Olp prodicition

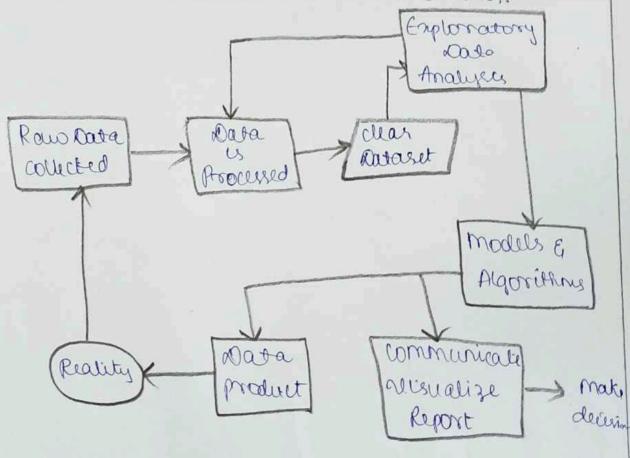
Pauticle Susarm Optimization:

The analysis is done on dotte wing rowious techinques like test analysis, aiagnostic analysis.

- · Histogram
- · Bas Graph
- · Box plat
- · Scatter Plat

3. meditical dialysis:

This is an Emplomatory Douba Analysis in which firstly Raw data is collected the douba is processed than we can create a datamodule & we clean the dataset with union-need mades & create evel attending to the tables.



3.2-Handware / Software designing

CPU- Entel is minimum & inter it on in an preferred Duelopment Environment Requirement: Juppyteo Nathook, Gook Openating Fruironment Required: Linex, waindows.

API: Streamlit an External Unlesfau Required Functions.

Requirment: Python, spider, Mouconda, Vscode, Boothshap mode.

Result:

2008 Summer has a team of 82 pm Event Swimming women's 50 meters few Style. Add vinsight to favorites. Event Athletics Women's 100 meters has the highest team at 404, Out of which Games 2008 Summer contributed the most. 6. Advantages & Disadwartages:

Advantages:

- * occupes virsight into the performance of countries un the Olympic over the year & helps athlets to quickly analyze their own & competitors performance
- of At last use can come to a decision & make the olympic Games better by knowing the data & visualizate on heller subsolvantages.
- * Due de former quoqueaphical on historical changes analyses vary.
- * So it is a disadvantage so in data will not be stable
- & Big data analysis violates principle of promacy

6. Applications:

- t To find out the growth in the performance of a
- * It can be used to find to of medals woon in each year
- * No. of medals woon by different countries.
- & NO. of medals wan by male & female.
- to most noig medals com by each player.
- I Most modals wan by female player.
- & Most medals won by male player.
- * Data Analytics coin be elised in weather condition.

7. Conclusion:

The main objective of this study was to analyse & rescullize the valueous factors which have contribute to the evolution of the olympias games over the years.

data analysis factors of a dataset wint a nisual formate. The primerum factors of a data winto a visual wisual formate. We explicited pythom clanquage to implement our work break because it is one of the implement danguages is witable for data dinalysis & is the platform when we have performed other med this malysis.

8. future Scope:

townste. We can also describe fine data in other formate the geographical form where we can depict the countries on the world map.

Till now we have only performed Data dralysis using & supposating Data Analysis. use com also orale a Predictive

On Visualization-1:

use our find the sex like male a female percentage over here.

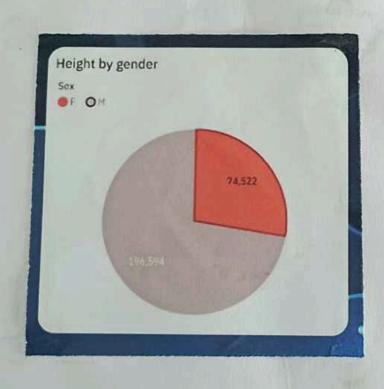
ond 196. 594 1. of male in olympics.

Alexa was can see the height by gender in the pie chart formate.

Height By Gender

Fernale male.

LSEX-J



In Visualization - 2

we can find in medals won by different countries it is unpresented on map. Here we can find gold, silver, bronge by count.



- * raifferent colours indicates the different
- of Europ year Iterm means for every four year was have summery games & winter Games
- * En Peremiones in single year both summer & winter games would held.
- * But now En couple of years the Games are going

In Visualization - 3

use can find no. of medals womby male & female seperately and ut is supresented on donut chart pie whart.

In the previous topic the shown about the gold, silver & bronze medal in this we can find the medals won by men & women seperately.

Glames in the year 1952:



En Visualisation - 4

use con find the most no-of medals won by player & is suppresented on Scatter plot.

Here we can see no. of gold, Silver, bronze medals won by each player in olympics.

oneir lovel best & won many medals to where countries.

Form every weendry where as male & Fernale players. And everyone war models.

Garnes by Seasons coloured by years.

Summer vainter

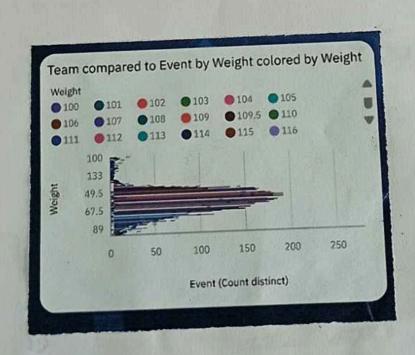


On Visualization - 5:

waight, colored by weight.

me different different colocurs make I shows the different weights in the graph model. Un the Y-axus it indicates the weight and in the x-axus it shows trunt (sound distinct) with the x-axus it shows trunt (sound distinct) with the x-axus it shows trunt (sound distinct) with the x-axus it shows trunt (sound distinct) with

Team Compared to Event By Weight With Colone



En visualization 06:

cae can find the Games as per seasons like semmer & winter. And the colour Endicates the difference between years.

method. The total deam count in y-asus is 0-5,000 and the odympics years are in x-asus cuth difference 1900-2014 in both summer & vienter gaming Seasons

Team Compared To team By Grames Colocus By Seasons!

