



OLYMPICS DATA ANALYSIS AND PREDICTION SYSTEM

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I would like to thank them once again for their dedication and commitment that ensured all my concepts were cleared without which I would not be able to finish this project.

DECLARATION

This is to declare that this report has been written by me. No part of the report is plagiarized from other sources. All information included from other sources have been duly acknowledged. I aver that if any part of the report is found to be plagiarized, I shall take full responsibility for it.

Dhruv Dwivedi
(2000100100062)

CERTIFICATE



effervescence
IIIT Allahabad



CERTIFICATE OF COMPLETION



Dhruv Dwivedi



Is presented with this certificate to acknowledge their active participation in



Machine Learning

Course with **Engineer Core Summer Internship** in association with **Effervescence IIIT Allahabad**
in the month of **May** and **June 2023**

presented by



EngineerCore

EN-SI-5825

Certificate Number

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2023

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INTRODUCTION

The Olympic Games are a prestigious international sporting event held every four years, bringing together athletes from around the world to compete in a wide range of sports. The Games have a rich history dating back to ancient Greece, where they were held in Olympia from at least 776 BCE until they were abolished in 393 CE. The modern Olympic Games were revived in the late 19th century and have since become the largest and most celebrated multi-sport event in the world.

The Olympic Games serve not only as a platform for athletic competition but also as a celebration of global unity, cultural exchange, and the pursuit of excellence in sports. They continue to captivate audiences worldwide, fostering goodwill and friendship among nations.

About Project

An Olympics data analysis and prediction system analyse historical data related to the Olympic Games, athletes, and various sporting events. This system combines data analytics, machine learning techniques to provide valuable insights into athlete performance, trends, and potential outcomes.

The goal of an Olympic data analysis and prediction system project is to leverage data-driven insights to enhance the understanding of past performances, identify patterns, and make informed predictions about future outcomes in the context of the Olympic Games.

Project Description

The Olympics Data Analysis and Prediction System is a comprehensive project aimed at analyzing historical Olympic data and predicting outcomes for future events. This system combines data analytics, machine learning techniques to provide valuable insights into athlete performance, trends, and potential outcomes.

Structure of Website

Home page

Home page includes:

- Navigation links to other page like fixture, atheletes, analysis
- Featured atheletes
- Games
- Ticket bookings

Ticket Generation

Ticket Generation includes:

- Name
- Email
- Event
- Quantity

Sign Up Page

Sign Up page includes:

- Name
- Email
- Password
- Confirm Password

Login Page

Login Page includes:

- Email
- Password

Featured Atheletes

It includes atheletes of various games like:

- Softball
- Archery
- Badminton
- Basketball
- Boxing

- Hockey
- Gymnastics

Games

It includes description of various games like:

- Archery
- Badminton
- Boxing
- Wrestling
- Tennis
- Weightlifting
- Hockey

Payment Page

- Cardholder name
- Card holder email
- Card Number
- Expiry Date
- CVV
- Payment method

Analysis

It include analysis of 120 year old data

- Medal Tally
- Overall analysis
- Country wise analysis
- Athlete wise analysis

Technologies Used

- 1. HTML**
- 2. CSS**
- 3. BOOTSTAP**
- 4. JAVASCRIPT**
- 5. NODE JS**
- 6. MONGODB**
- 7. MACHINE LEARNING**
- 8. DATA ANALYTICS**
- 9. STREAMLIT**

MACHINE LEARNING

Machine Learning is a branch of artificial intelligence that develops algorithms by learning the hidden patterns of the datasets used it to make predictions on new similar type data, without being explicitly programmed for each task.

Machine learning is used in many different applications, from image and speech recognition to natural language processing, recommendation systems, fraud detection, portfolio optimization, automated task, and so on. Machine learning models are also used to power autonomous vehicles, drones, and robots, making them more intelligent and adaptable to changing environments.

SCOPE OF MACHINE LEARNING

Machine learning has a vast scope, and it is used in many different fields, including healthcare, finance, retail, and many others. Its scope is increasing every day as more and more companies adopt this technology to improve their business processes.

One of the primary applications of machine learning is in data analysis. Machine learning algorithms can analyze vast amounts of data and find hidden patterns and correlations that humans would not be able to detect.

PROJECT IMPLEMENTATION

Snapshots

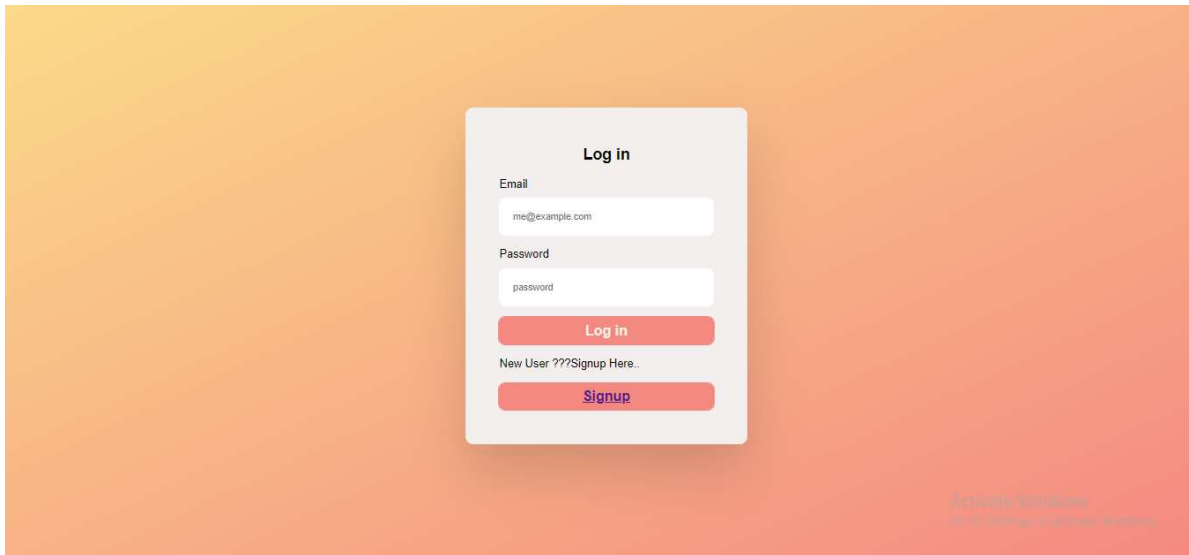
HOME PAGE



FIXTURE



LOGIN PAGE



The login page features a light orange gradient background. A central white card contains the login form. The form has a title 'Log in', an email input field with the placeholder 'me@example.com', a password input field with the placeholder 'password', a red 'Log in' button, and a link 'New User ???Signup Here.' with a red 'Signup' button below it. In the bottom right corner, there is a faint 'Activate Windows' watermark.

Log in

Email

me@example.com

Password

password

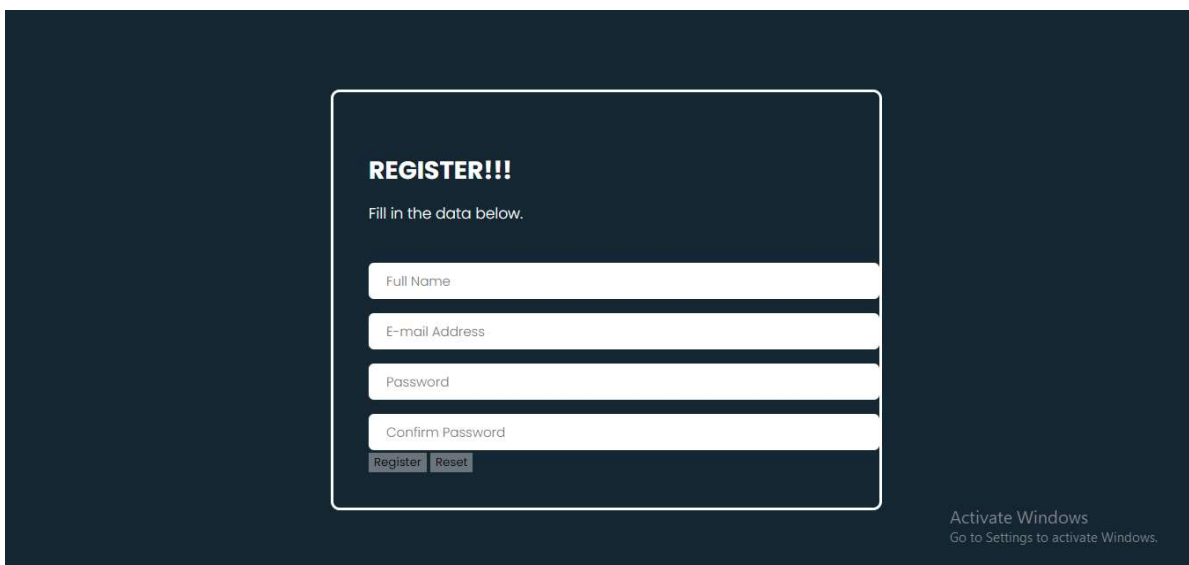
Log in

New User ???Signup Here.

Signup

Activate Windows
Go to Settings to activate Windows.

SIGN UP PAGE



The sign up page has a dark blue background. A central white card contains the registration form. The form has a title 'REGISTER!!!', a subtitle 'Fill in the data below.', four input fields for 'Full Name', 'E-mail Address', 'Password', and 'Confirm Password', and two buttons: 'Register' and 'Reset'. In the bottom right corner, there is a faint 'Activate Windows' watermark.

REGISTER!!!

Fill in the data below.

Full Name

E-mail Address

Password

Confirm Password

Register **Reset**

Activate Windows
Go to Settings to activate Windows.

Confirmation after signup

Welcome to the Olympic Website Community!

sdivyanshu5561@gmail.com

to me

11:43 AM (0 minutes ago)

☆

↶

⋮

Dear User,

Congratulations! You have successfully signed up for our Olympic Website.

Welcome to our vibrant community where you can dive into the world of sports and stay updated on all the thrilling Olympic events. Start exploring and enjoy the journey with us!

Best regards,


Olympic Website Community

↶ Reply

↷ Forward

ATHELETES


Softball



Ali Aguilar

Country: United State Of America


Aguilar was selected to represent the United States at the 2016 Women's Softball World Championship, where the team won the gold medal. Aguilar hit 273 in the tournament with a Home Run and 5 RBIs.



Monica Abbott

Country :United State of America


Her legendary career includes a record-setting career at Tennessee, two Olympic silver medals and four World Championships.



Valerie Arioto

Country :United States Of America

Arioto represented Team USA at the 2020 Summer Olympics and won a silver medal.Arioto recorded three hits and two walks for the team during the tournament



Yukiko Ueno

Team :Japan

She won Gold in the 2008 Summer Olympics with her national team and Bronze in the 2004 Summer Olympics. She stands 173cm tall or 5'8".

Activate Windows

Go to Settings to activate Windows.

ANALYSIS

Olympics Analysis

Select an Option

☒ Medal Tally

☐ Overall Analysis

☐ Country-wise Analysis

☐ Athlete wise Analysis

Medal Tally

Select Year

Overall

Select Country

Overall

Overall Tally

	region	Gold	Silver	Bronze	total
0	USA	1035	802	708	2545
1	Russia	592	498	487	1577
2	Germany	444	457	491	1392
3	UK	278	317	300	895
4	France	234	256	287	777
5	China	228	163	154	545
6	Italy	219	191	198	608
7	Hungary	178	154	172	504
8	Sweden	150	175	188	513
9	Australia	150	171	197	518
10	Japan	142	134	161	437
11	Finland	104	86	120	310
12	South Korea	90	85	89	264
13	Netherlands	88	97	114	299
14	Romania	88	95	120	303
15	Cuba	77	67	70	214
16	Poland	69	87	134	290
17	Canada	64	104	137	305
18	Czech Republic	64	68	75	207
19	Norway	59	51	48	158
20	Switzerland	58	82	69	209
21	Bulgaria	51	86	80	217
22	Denmark	49	81	82	212
...

Activate Windows
Go to Settings to activate Windows.

Olympics Analysis

Select an Option

☐ Medal Tally

☒ Overall Analysis

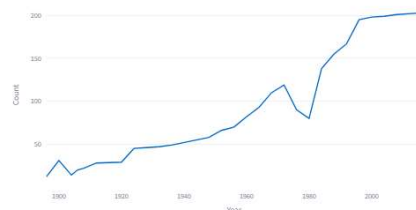
☐ Country-wise Analysis

☐ Athlete wise Analysis

Top Statistics

Editions	Hosts	Sports
28	23	52
Events	Nations	Athletes
651	206	116122

Participating Nations over the years



Activate Windows
Go to Settings to activate Windows.

Olympics Analysis

Select an Option

☐ Medal Tally

☐ Overall Analysis

☒ Country-wise Analysis

☐ Athlete wise Analysis

Country-wise Analysis

Select a Country

India

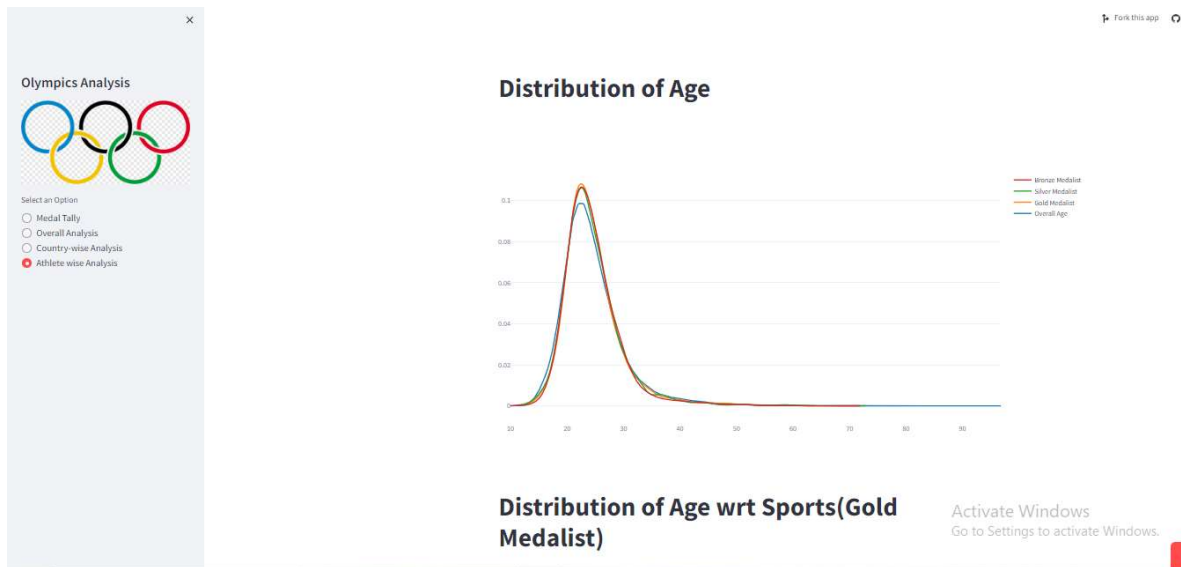
India Medal Tally over the years



India excels in the following sports



Activate Windows
Go to Settings to activate Windows.



Ticket Generation Page

Ticket Generator

localhost:2204/ticket_generator.html

Cloud Engineer Lear... Drivers SDE Sheet... Login Infosys Sprin... The 100 Most Impo... DSA by Shradha Did... java software - Goo... TCS ION Digital Lear... @jobs_with_sardar j...

Ticket Generator

Name: Divyanshu Singh

Email: sddivyanshu352@gmail.com

Event: hockey championship

Quantity: 5

[Make Payment](#)

Tomorrow's low
Near record

Search

ENG IN 1003 19-12-2023

Payment Page

Payment Page

Cardholder Name:
Divyanshu Singh

Cardholder Email ID:
sddivyanshu352@gmail.com

Card Number:
1234567812345678

Expiry Date:
26-12-2023

CVV:
123

Payment Method:

☒ VISA

☐ MasterCard

☐ PayPal

[Pay Now Rs. 7192](#)

Confirmation after payment

Successful Payment Confirmation for Your Olympic Stadium Seat Booking

Inbox x

S

sdivyanshu5561@gmail.com

to me

12:03 PM (0 minutes ago)

☆

↶

⋮

Dear Divyanshu Singh,

Congratulations! Your payment for the Olympic Stadium seat booking has been successfully processed. Your reservation is confirmed, and you're all set to enjoy the thrilling events and Your seat number is 27. Thank you for choosing us, and we look forward to hosting you at the Olympics!

Best regards,
Olympics Event Organization;

↶ Reply

↷ Forward

DATABASE

MongoDB Compass - localhost:27017/Olympic.Signup

Connect Edit View Collection Help

localhost:27017

My Queries

Olympic

Signup

+

My Queries

Performance

Databases

Search

Axiom

Blogger

BusYatri

Eduureka

Olympic

Signup

admin

config

ekart

form

healthfit

local

provoke

signup

your_database_name

Olympic.Signup

7 DOCUMENTS1 INDEXES

Documents

Aggregations

Schema

Indexes

Validation

Filter

Type a query: { field: 'value' } or Generate query

Explain

Reset

Find

Options

ADD DATA

EXPORT DATA

1 - 2 of 2

Document 1

_id: ObjectId('64c3995926c6488c193f5d4')

name: "Divyanshu"

email: "sdivyanshu5561@gmail.com"

password: "Divyanshu@123"

confm_passwd: "Divyanshu@123"

Document 2

_id: ObjectId('65811c4567db99d2b2a9ce42')

name: "Dhruv Dwivedi "

email: "dwivedirudra63@gmail.com"

password: "123456"

confm_passwd: "123456"

MONGOOSH

PREDICTION

Pandas Profiling Report

Overview

Variables

Interactions

Correlations

Missing values

Sample

Variables

Select Columns

ID

Real number (3)

Distinct	116776	Minimum	1
Distinct (%)	52.8%	Maximum	135568
Missing	0	Zeros	0
Missing (%)	0.0%	Zeros (%)	0.0%
Infinite	0	Negative	0
Infinite (%)	0.0%	Negative (%)	0.0%
Mean	68016.867	Memory size	1.7 MiB

More details

REFERENCE

1. GeeksforGeeks
2. Wikipedia
3. Javatpoint
4. W3schools

LINKS

- <https://www.geeksforgeeks.org>
- <https://en.wikipedia.org>
- <https://www.javatpoint.com>
- <https://www.w3schools.com>