SAMSUNG

Samsung Innovation Campus

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Artificial Intelligence Course 402



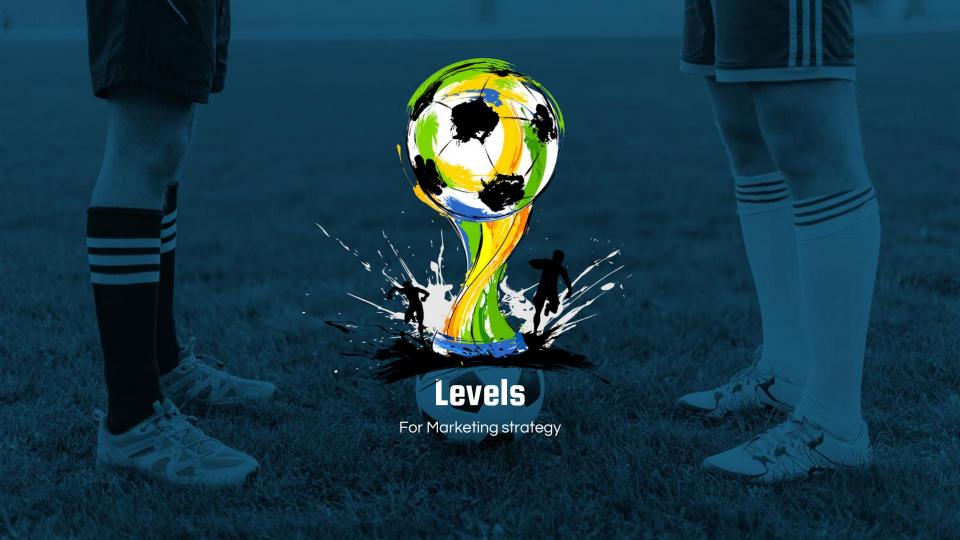


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To increase satisfaction of customer with the values software and stockholders with profit





Intoduction

What is FIFA world cup and how it is effect the marketing strategies



Introduction

The FIFA World Cup, often simply called the World Cup, is an international association football competition contested by the senior men's national teams of the members of the Fédération Internationale de Football Association (FIFA), the sport's global governing body. The championship has been awarded every four years since the inaugural tournament in 1930, except in 1942 and 1946 when it was not held because of the Second World War. The current champions are France, who won their second title at the 2018 tournament in Russia.





Business Requirement

Clients needs and business problems and solutions

Business Requirement



Exploring data feature and how could be effect the ML model

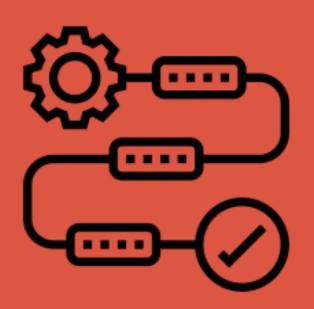


Helping customers to know about their teams and keep them update with news



Train ML Model to predict winners to use them as marketing materials





Methodology

approach to reach the customer and satisfy business stockholders



Exploratory Data Analysis

Business Questions

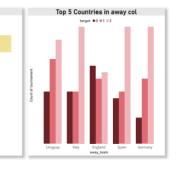


Count of tournament



- an interactive graphs was made using Microsoft power Bi to be accessible and useful for stockholders to mentor the business work flow
- Answer most common business questions

target •0 •1 •2

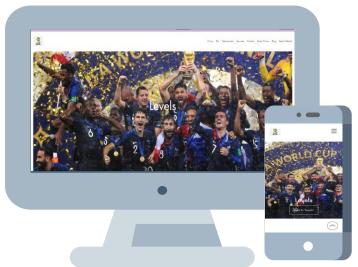




UI/UX platform

Web Application

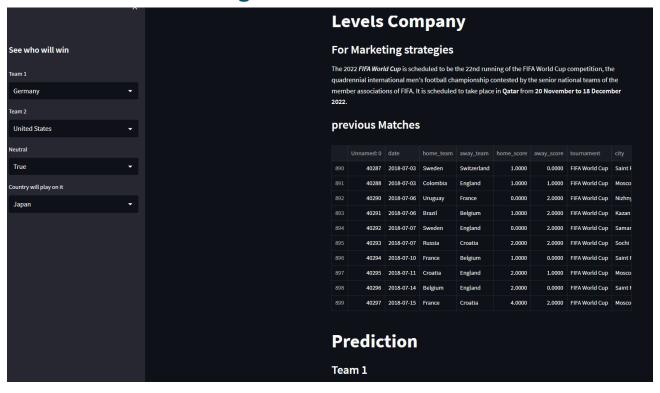
- Build a dynamic web application that help customers of our website to see the updated news about their favorite teams
- Help clients to watch live matches with paid subscriptions and highlights.
- Demo website:
 - https://editor.wix.com/html/editor/web/renderer/edit/45fe62 bd-c2f1-4fac-8f91-2be6f035e1bf/?metaSiteId=273faa19-3012-4862-861a-
 - 76d156682a82&address=&businessFirstFlow=true&busine ssName=Levels&email=&industryId=f9d1880b41b5c94f5f4 00542&phoneNumber=&siteCreationWizard=true&structur eld=61712509276d2b00161abefd





Winners prediction

Machine Learning Model



Predict which of these teams are going to win the world cup. This prediction is going to make companies sponsors these teams by printing their logo on players' T-shirts, on banners



Evaluation

evaluate user experience and validation machine learning models



Test UI / UX

Persona

• **Age**: 15 -> 55 Years old

• **Gender**: Both Gender

• Location: Around the world

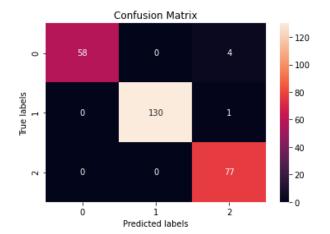
• Feedback: Dynamic, colorful, meets user experience

• Interests: football, Sports, Health



Winners Prediction

	precision	recall	f1-score	support
0	1.00	0.94	0.97	62
1	1.00	0.99	1.00	131
2	0.94	1.00	0.97	77
accuracy			0.98	270
macro avg	0.98	0.98	0.98	270
weighted avg	0.98	0.98	0.98	270



 After testing a lot of Machine learning models, Decision Tree Classifier is selected to be the implemented model to predict the winners

Train Accuracy: 99.5%Test Accuracy: 98.1%



Conclusion

- "Levels" had done its demo for the web application using streamlit with interactive data analysis dashboard made by Microsoft Power Bi and Train Decision Tree Classifier Machine Learning model to predict who is the winner country.
- Finally, "Levels" Company complete almost 80% of its deployment and this webpage is going to lunch by the end of 2022.



Future Recommendation



Anather Machine Learning model that predict how many goals will scored each match

Levels web application will be able also to predict different types of matches not only FIFA World Cup

THANKS!

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