FIFA 18 - Player/League Analysis

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Initial StoryBook link - https://public.tableau.com/profile/ankit.naik#!/vizhome/Fifa_3/Story1
Final StoryBook link - https://public.tableau.com/profile/ankit.naik#!/vizhome/Fifa-2/Story1

Summary -

FIFA18 is a multiplayer football/soccer game developed by EA and FIFA. It contains database of most of the players that are actively playing football. Whole analysis will be focussed on finding player attributes and other details related to playes.

Major Findings -

- Most of the soccer players have following attributes -
    - Age - 30
    - Height - 180cm
    - Weight - 78kg
- Oman has highest average height of football players (194 cm) and Thailand has lowest (165.5 cm)
- Potential of player decreases over time.

Other Findings -

- Prime age of a football player is 25-30 where there values are at peak
- Most valued players often found on European Leagues.

Design -

- Null values are present for league but they have not been removed since they are actual players and removing them will make the visualisation related to players incomplete.
- To explore player attributes, ratings and value a univariate analysis Bar Chart was chosen.
- To explore relationship between variables Scatter Plot has been used.
- Region wise heat map is produced where ever its possible like height,player value,etc.
- Each chart is provided a filter by league which will be helpful in drilling down to details and also fun to explore.
- After initial feedback, brief introduction of variable has been provided wherever required in the story. Also axis labels have been updated to provide exact information.
- Average line has been include in most of the bar chart.
- After feedback from slack forum story has been updated to make the feel of a story with conclusion rather than just exploratory charts.

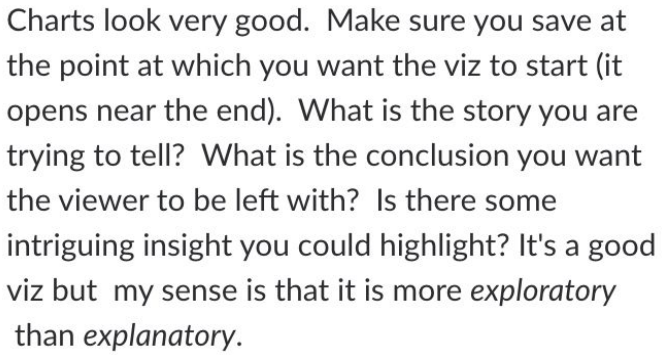
- Regarding charts no major changes have been done but appropriate text labels have been provided in the final version.
- Labels were modified to give exact facts in almost all of the chart.
- Wage is removed from Age v/s Value graph as it was not required.
- In potential v/s age graph Overall rating is added and also instead of distinct count now grouping is based on average.
- Overall rating distribution has been removed
- Club wise most valued player has been kept since its displaying important information related to most valued players.

Feedback -

- **Initial Feedback (v1) from friends-**

    1. Initial feedback was good but pointed out several flaws in the visualisation like some of the feature (Overall/Potential) were not self-explanatory to a person who has not experienced the game.
    2. Axis labels were not clear and was giving unnecessary label like instead of "Count" for a distribution "Overall Count" was written similar for other charts.
    3. Bar charts should include average line and explained in label.

- **Subsequent Feedback (v2) from Slack-**



- **Subsequent Feedback(v3) from Udacity -**

    1. Statements giving average value as a fact should be removed.
    2. No Clear fact stated in few charts.
    3. Labels were not exact.
    4. Some charts are breaking flow of story.
    5. Conclusion is not related to story.

Resources -

- Dataset was downloaded from Kaggle available in following link - https://www.kaggle.com/kevinmh/fifa-18-more-complete-player-dataset
- For visualisation reference following notebook was used - https://www.kaggle.com/avinashprabhakaran/eda-using-r