**T20 WORLD CUP ANALYSIS FOR TEAM INDIA BY GROUP 8**

Group 8 Team Members:

Kumar Saurav Dash

Kedarnath Kotapati

Rohith Varma Kosuri

Bhanu Kumar

1. **Describe the Business problem.**

* India lost the T20 world cup in the semi-finals against England after defeating their rival Pakistan in the league stage. Team India had to accept their dominating defeat against the World cup Winning team – England, after having a good streak in league matches. What it takes for a team to win the world cup and if anything, different could be done in the case of managing the team?

1. **Describe the BI solution (including how data is processed).**

* As per the analysis, we can observe that India’s opening batsman didn’t perform as per the expectations. They didn’t score in the power play (first 6 overs). The main pacer(bowler) was injured, and no key spinners were not there in the bowling order. The extras given by the Indian bowlers were another advantage for the opposite team. England had the advantage of winning the toss over India considering the venue.

**3. Briefly describe the data source**

* We downloaded the dataset from Kaggle: <https://www.kaggle.com/datasets/rajsengo/icc-mens-t20-world-cup>
* We had four csv files in a zipped folder, from which we used 3 files: Batting\_card.csv, Bowling\_card.csv and summary.csv.

**4. Briefly describe the BI tool used**

* Tableau Desktop was the BI Tool utilized for the elements it offers, for example, several visualisation charts like bar charts, box plots, pie charts and Visual Dashboards BI Platform.
* Tableau Desktop has a rich feature set and allows you to code and customize reports. Right from creating the charts, and reports, to blending them all together to form a dashboard, all the necessary work is created in Tableau Desktop.
* **Tableau**is a powerful and fastest-growing data visualization tool used in the Business Intelligence Industry. It helps in simplifying raw data in a very easily understandable format. Tableau helps create data that can be understood by professionals at any level in an organization. It also allows non-technical users to create customized dashboards.

**5**. **Describe the BI product produced**

* Visualizing the data using Tableau Dashboards in the BI product that is produced. Dashboards give us an overview analysis of the performance of Team India with respect to the Semi-Final match and across all the matches.
* The Dashboards comprise of Bar-charts which help us to compare several attributes that were important to us for determining the performance and then we have the box plots to show the distribution of scoring rates in the case of batting and runs conceded in the case of bowling.
* We have six dashboards consisting of Key highlights of England vs India, Match performance analysis (ENG vs IND), India Batting and Bowling Analysis (2 separate dashboards), and England Batting & Bowling Analysis (2 Separate dashboards).
* The mixture of Bar charts and Box plots shows how the runs and wickets are distributed for players across several matches using key parameters like shape, size and colour to distinguish between two different types. Attributes that we considered include Avg. Strike rate, Balls faced, Avg. Economy Rate etc. is several measure values to analyze the Team Results.

**6. Describe the validation approach**

* This product should be validated by the Expert Cricket Analyst known as a “Cricket Pundit”. These cricket analysts can be former cricket players and commentators.