

# What can be improved?



#### Engaging users using datacentric broadcasts

- Develop a *real-time scoring metric* which indicates chances of a good finish
- *Increased engagement* with streaming viewers
- Identifying top performers within a given match provides a way to assess performance within a game
- Leverage historical player performance + current
  match events to evaluate overall performance



### Approach

We *followed a 3-stage process* to come up with the real-time scores:

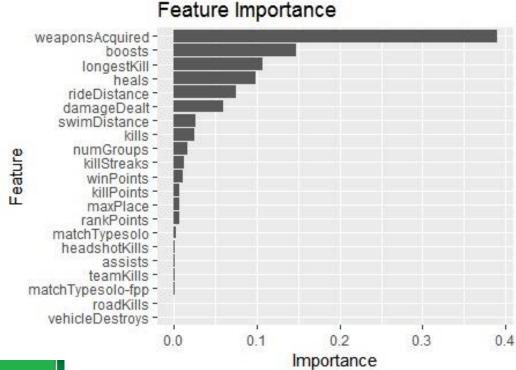
- Use historical aggregated matches' data from PUBG to identify which metrics drive success for a player
- Use play-by-play information from the PUBG APIs to train a model on the current matches data to come up with a real-time score
- 3. Combine the historical + real-time scores to identify the top-performers in a live match to drive viewer engagement



# What impacts the score

- Identified key factors that cause score to increase
- We show which factors will increase real-time scores
- Betters will find this feature useful







### Methodology

 Train a historical performance model using aggregated playermatch data

Identify important metric drivers which define player success

 Pre-process, pre-process & pre-process to extract the useful information from the resulting JSONs

 Iteratively train the play-by-play model as and when new events like kills, damage events & revives happen

 Aggregate historical and real-time scores for a given live test match



## Technical Aspects

Train aggregate match data

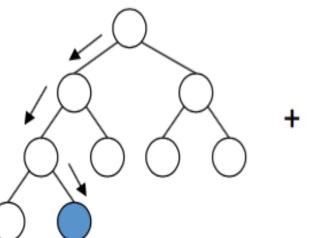
Test aggregate matches

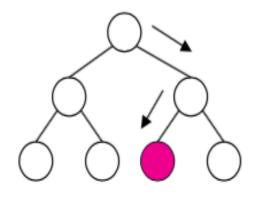
Get Historical Scores

#### XG-Boost

40k matches 500k players

20k matches200k players





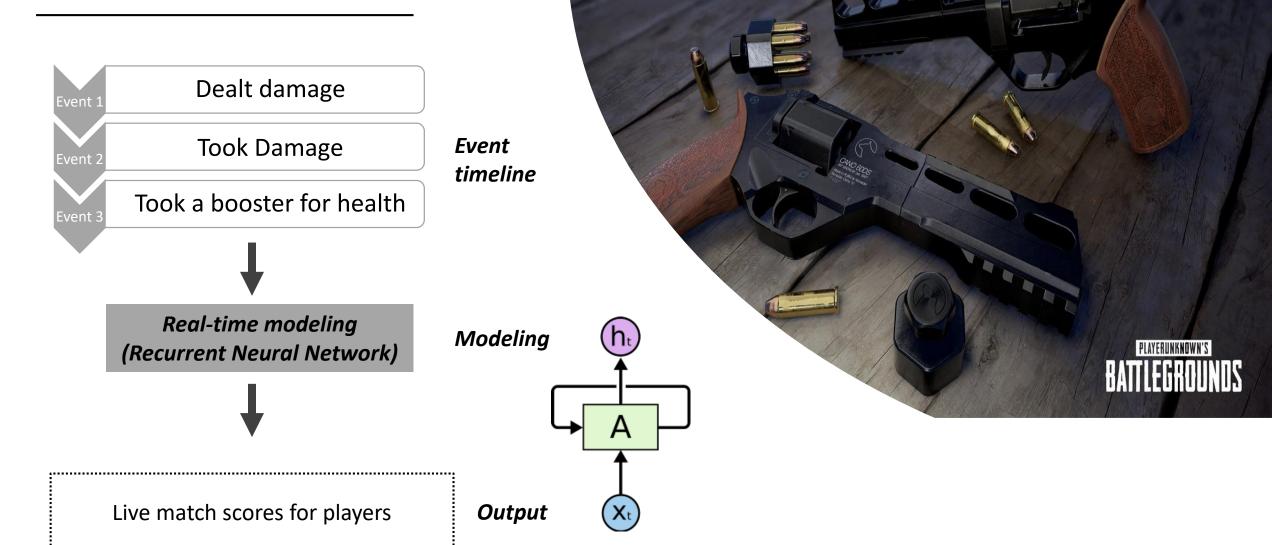


# Sample of real-time score visualization

Sliders showing the scores of top players in the bottom left Real-time indication of performance in live coverage



### Technical Aspects



#### **Innovations**

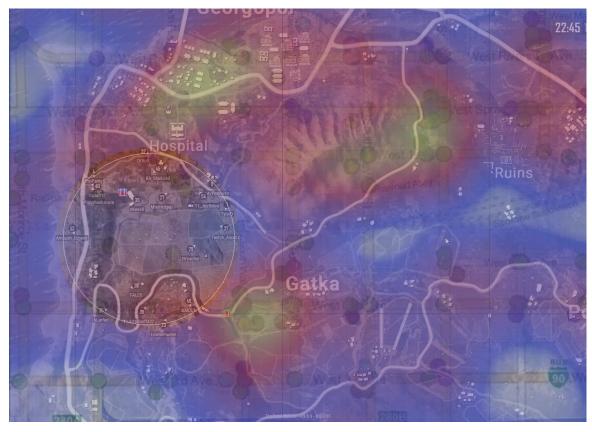
- Use play-by-play events data to capture what is happening and use it to come up with a real-time scoring system which lets you know who is performing well in a live match
- We also use historical match data to influence our final score for the current match



# Heatmap of player scores overlaid on map

- Allow commentator to show heat map of real-time scores overlaid on regular map
- Enable commentator to zoom in on key areas rather than showing random areas over streaming





### Data Insights

- Player events during a match are a rich source of information that should be mined during the match
- In addition to serving as player performance indicators, they can also help give interesting statistics for the match which help engage with the users
- The data insights make friendly conversations between viewers during real-time screening of matches and creates good social impact



# Thank you!