

Purpose of Video Analytics

- Player analysis:
 - Batter
 - Strengths, weakness, shots, timing, foot, body, ...
 - Bowler
 - Line, Lengths, Speed, ...
 - Fielder
 - Catches, Runs saved, Running, Cover, Run outs, ..
- Umpiring:
 - Ball tracking – DRS
 - No ball detection
- Technology:
 - Wagon wheel
 - DRS
 - Six distance, pitch map,
- Coaching
 - For building better players
- Scouting
 - Net bowlers for IPL teams

Problems faced to perform Video Analytics:

- Where to get the video?
- What to solve in the video? (what is the problem statement?)
- Camera description details (angles, placement, resolution, frame size, format ..)
- Tools / Software / Languages – What to use?
- Knowledge of the game – players / skills / grounds / match / nets

Solutions:

- Where to get the video?
 - Youtube / Twitter / Instagram
 - Cricbuzz
 - Highlights
 - Match replay
- Problems with the above resources:
 - Various angles – no constant angle
 - They are raw – takes time to edit / filter
 - We don't get complete footage
 - Copy right / Quality

Footage data:

- V1 – 12 GB (200 balls data)
- V2 – 100 MB (30 balls data)

Objective:**List down:**

- Observations – player, ball, bat, movements
- Values that can be measured – line, length, speed, deviations
- ...

Resources:

- Video link - <https://drive.google.com/file/d/1kZ1FTNzniM7y3gxxyVydgbw98UNONWZF/view?usp=sharing>
- Protactor link - https://www.ginifab.com/feeds/angle_measurement/
- Ruler link - [https://www.ginifab.com/feeds/cm to inch/virtual ruler on your image.html](https://www.ginifab.com/feeds/cm_to_inch/virtual_ruler_on_your_image.html)