

## Sport Video Summarization

(Feature Based)

Object

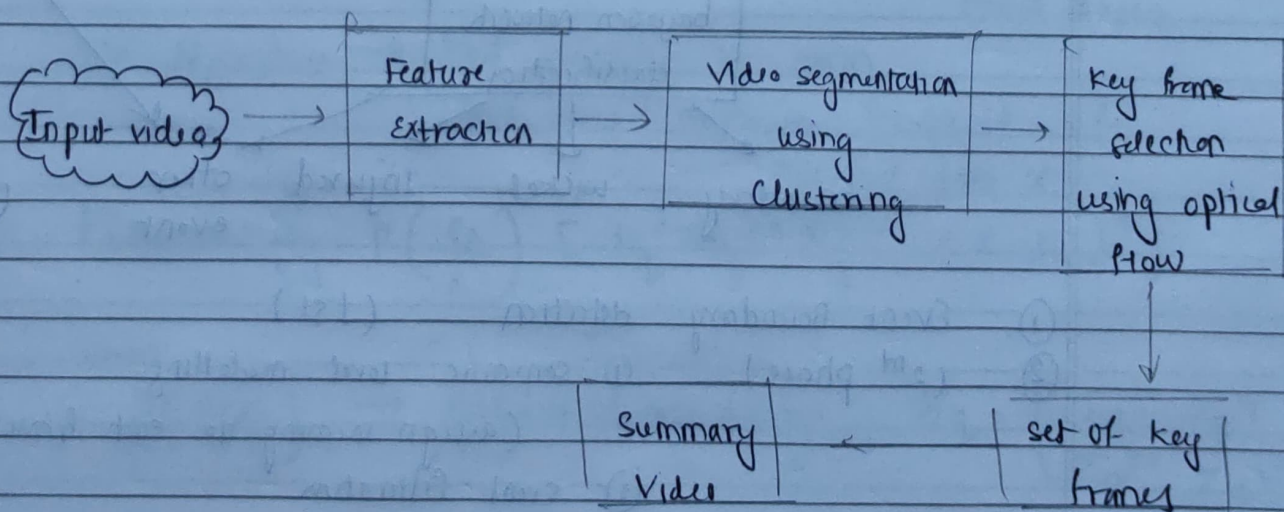
- ① Target objects can be ball, player, umpire, field, audience,
- ② Object Segmentation (computationally expensive)  
(Need to separate object from environment)

\* Aim: Efficient video summary generation using dominant features for cricket.

① Color & Change in Motion

- (i) partition video into shots using dominant color feature
- (ii) select key frames from each shot using change in motion

& Dominant color = Green field in cricket



② ~~Fast~~ Event-identification & state based event modelling

Sol<sup>n</sup>:



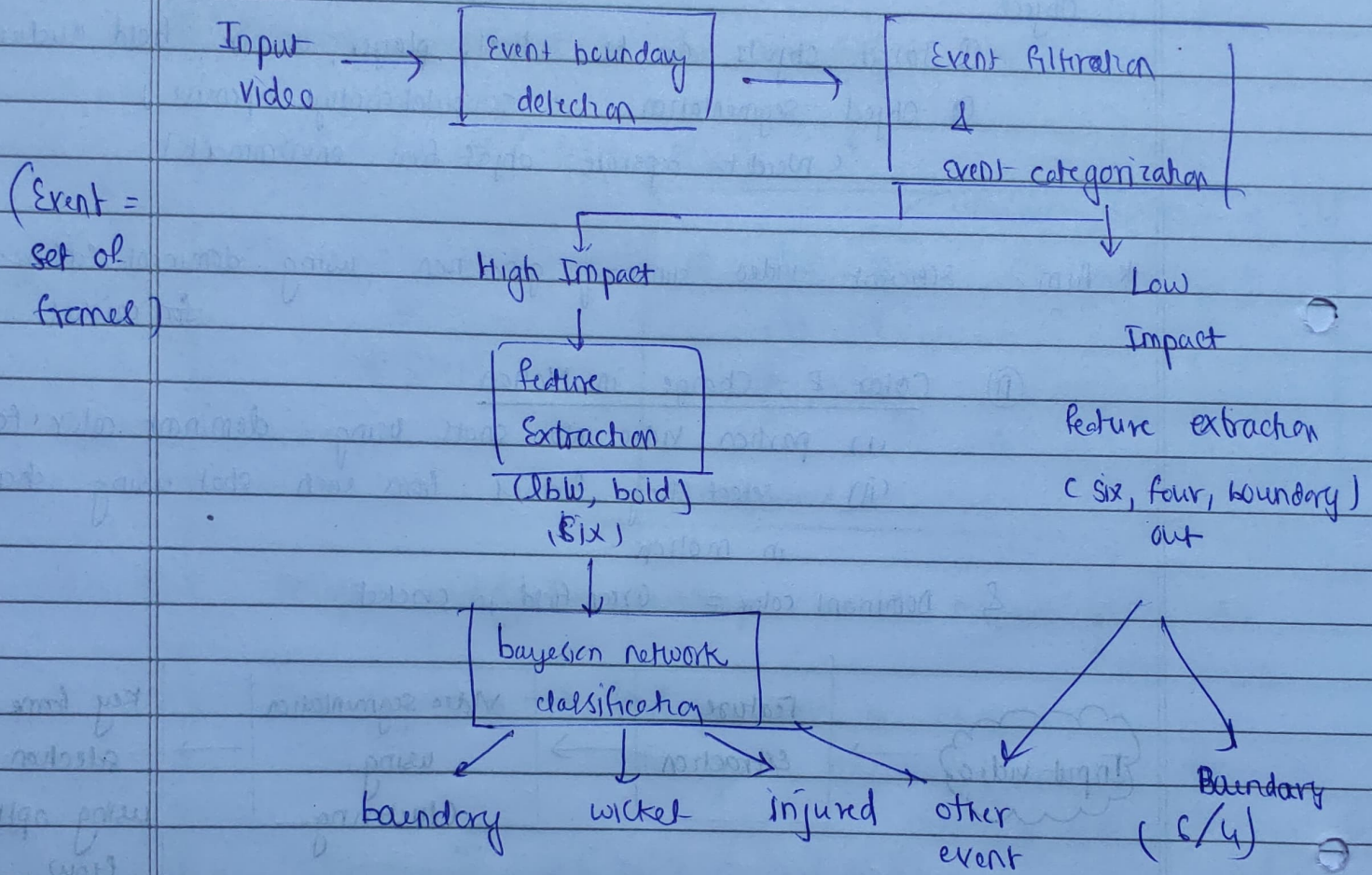
Semantic Based analysis for cricket match video Summarization



## Hybrid Model

Supervised Training + Unsupervised

(Train it using old season of cricket match)



① Event Boundary detection (1st)

② (2<sup>nd</sup> phase)

① semantic level modelling

(assign meaning to each frame)

② event filtration

③ event categorization

④ Event Classification → Hidden Markov

③ Out/~~Penal~~ Injured model