11 Player Selection Model

Category / Subcategory of Player

- Pressure

Normal matches: 1

Quarter Finals: 3

Semi Finals: 4

Finals: 5

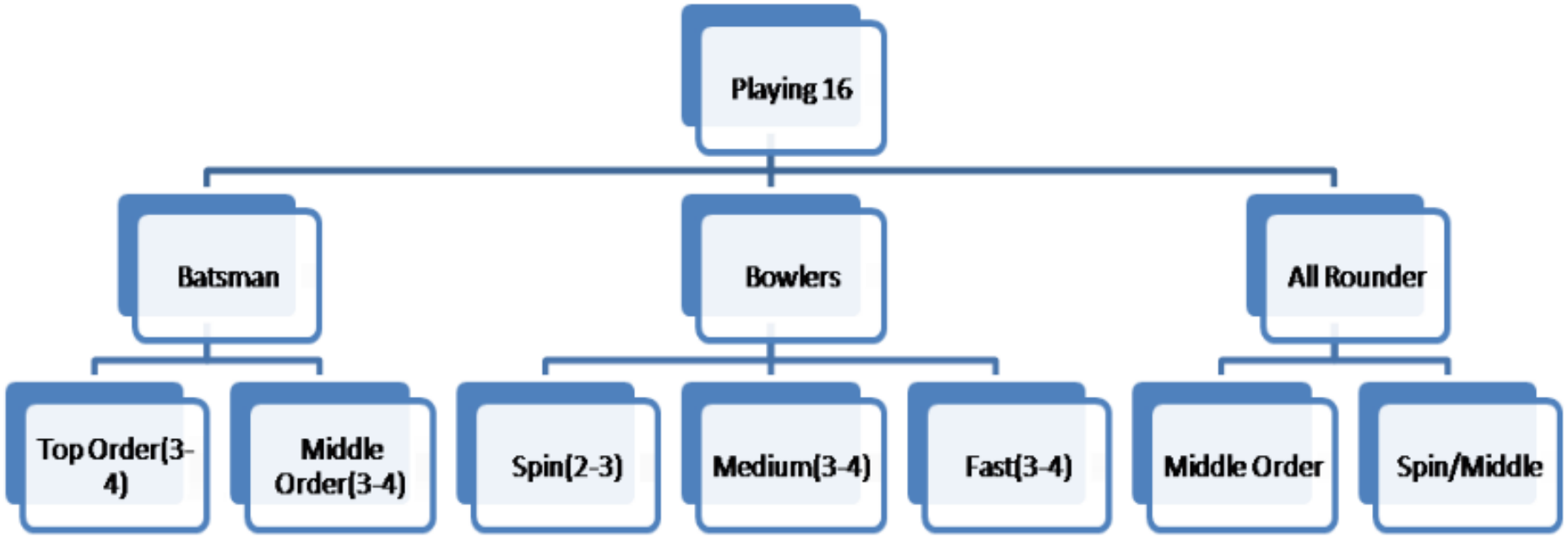
>Injury:

- normal – 1

- strain – 2

- a little serious – 5

- serious – out from game



Factor's To Include in this Statistical Model

OVERALL STATS

YEAR WISE STATS

LAST 5 OR 3 MATCH PERFORMANCE

OPPOSITION STATS

LOCATION WISE STATS

INJURY

PRESSURE

PITCH

Weightaige for every Factor's(acc. to paper)

- 5% - Oposition stats
- 5 % - Location wise stats
- 15% - year wise stats
- 25% - overall stats
- 50% - Last 5 or 3 match stats

Ground(or pitch) affect on Player Selection

Batting + Pace	Batting + Spin
Top Order 2	Top Order 2
Middle Order 2	Middle Order 2
Wicket Keeper 1	Wicket Keeper 1
All Rounder 3	All Rounder 3
Fast / Medium 2	Fast / Medium 2
Medium 1	Spin 1

statistic for calculation of bating score

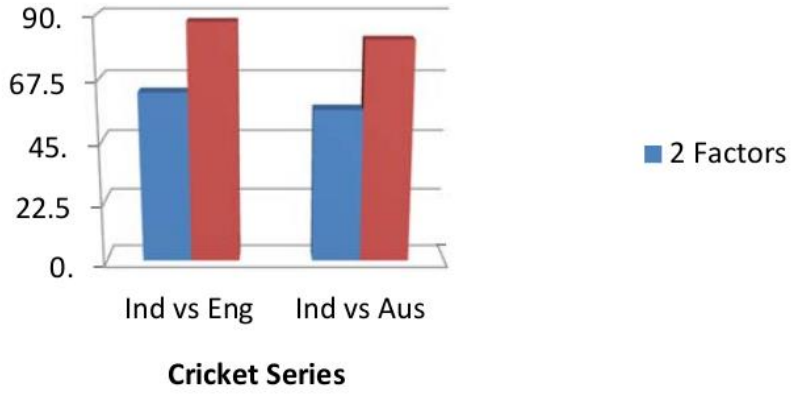
- A= Innings_batted/Total_Matches
- B= Bat_Avg/Max_Avg
- C=(20 * Num_Centuries + 5*Num_Fities)
- Innings_batted
- D= C/Max(C)
- E= 0.4*D + 0.6*B
- E->Batting_Score(Overall_stats)
- P->Batting_Score(Year_Wise)
- Q->Batting_Score(Oppostion_Wise)
- R->Batting_Score(Location_Wise)
- L= Mean of Last 5/ Max (Mean)
- Batting_Score= A*((0.25*E) + (0.15*P) + (0.1*
- (Q+R))+(0.5*L))

statistic for calculation of bowlingscore

- V=Innings_bowled/Total_Matches
- F= ((20*Num_5W)+(5*Num_3W))/Innings_bowled
- / G= F/Max(F)
- H= Bowl_Avg/Max_avg
- I= 0.4*G + 0.6 *H
- I ->Bowling_Score(Overall_stats)
- S->Bowling _Score (Year_Wise)
- T->Bowling_Score(Oppostion_Wise)
- U->Bowling_Score(Location_Wise)
- L1= Mean of Last 5/ Max (Mean)
- Bowling_Score=V*((0.25*I) +(0.15*S) + (0.1 *
- (T+U))+(0.5*L1))

India vs Australia(Test Match)	Prediction accuracy(%)
Match-1	91
Match-2	82
Match-3	73
Match-4	82

s the prediction accuracy of Indian players in India Englar



India vs England(Odi Match)	Prediction accuracy(%) of Team
Match-1	91
Match-2	91
Match-3	82
Match-4	73
Match-5	82

Result or conclusion

- algorithm, 14 out of 16 team members were predicted correctly(i.e 88% accuracy) for India vs England and 13
- out of 16 team members were predicted correctly(i.e 81% accuracy) for Australia vs India. These results show
- that prediction accuracy of our approach is considerable for prediction team of 16 players. Wrong prediction of
- the remaining 2-3 players are because of the assumptions that were made earlier i.e. all players are fit for
- remaining 1-2 players wrongly predicted is because of the situation based decisions made by the team.