The final objective in mind for this plot is to be able to create an RL driven batsman who can bat to any kind of ball/attain the max score within a defined no. of overs or a bowler who can deliver tough and hard to hit balls to the batsman.

Some of the applications that can be thought of as a part of this pipeline are:

1) Getting a supervised model trained to mimic the skill set of any player thereby having a digital twin of a player saved and ready for future reference. The trained digital twins of the actual players can be used to make vital decisions like whether he or she is suited to play in a particular pitch or weather conditions. Obviously, elements like the morale or mental state of the person cant are brought into the model at the present but an analysis completely from a skill set pov can be made about a player.

 -- the digital twin of a player can be also used for skill training. A digital twin of  Sachin, for instance, can be used by any bowler to train with and better his bowling skills.

2) Absorb the characteristics of a player using supervised learning methods as mentioned above. Further to this put the trained model in an RL environment to better its skills.

eg:- It would be like a model who has learned the basic skill sets of a player but not polished to perfection. Just the way how it would be when a selected player reaches the cricket academy. He/She would have their own set of specific skills but not everything required for International cricket which they could learn from the academy. The similar way our RL environment could act like an academy that could help the player get to the level of a pro player.

--- Create a supervised model of Tharun(Digital twin) which will have his own basic skill sets. Now make the digital twin play in the RL environment.  The new skills that the digital twin learns in this environment are basically the skills that Tharun(actual) lacks to become a pro player.

--- Make specialized analytics for a player like what aspects of a pitch if improved or what kind of a bowl if given would the player be able to play at his best.