

An Interactive Approach to Identify Cricket Batting Shots through Deep Learning Mechanism

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Abstract: *In recent years, a variety of sporting activities have seen increases in both participation and media coverage. Because there had been no sporting events during the worst of the current outbreak, several people had a tremendous urge to witness a game that was being played. Cricket is, without a shadow of a doubt, the most popular sport in India, attracting millions upon millions of devoted viewers to its matches. Due to the fact that they are so emotionally immersed in the game, spectators meticulously evaluate the skills of each player, notably the latter's capacity to select their shots. Because fantasy leagues and other services of a comparable nature are becoming increasingly popular, there has been a rise in the number of people interested in evaluating players for the purpose of selecting them for teams. The determination of batter shots is one of the manual processes that requires the biggest amount of time as well as cumbersome processes. Hence, in this paper, we have pro-posed layered Convolutional Neural Network referred as "Shot-Net" in order to classifying four categories of cricket shots, namely Cover Drive, Sweep shot, Pull Shot, Reverse Shot. Our proposed model has achieved fairly high accuracy with low cross-entropy rate till now.*

Keywords: cricket, Convolutional Neural Network, batting, Cricket shot classification, Deep Learning.

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