## **Deep Learning Project- Gesture Recognition**

Team

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As a data scientist at a home electronics company which manufactures state of the art smart televisions. You want to develop a cool feature in the smart-TV that can recognise five different gestures performed by the user which will help users control the TV without using a remote

The gestures are continuously monitored by the webcam mounted on the TV. Each gesture corresponds to a specific command:

* Thumbs up:  Increase the volume
* Thumbs down: Decrease the volume
* Left swipe: 'Jump' backwards 10 seconds
* Right swipe: 'Jump' forward 10 seconds
* Stop: Pause the movie

Different Experiments performed and there results:

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After doing all the experiments we finalised , rnn\_cnn\_tl2\_model

Which included transfer learning for CNN,

* Validation accuracy of 98% and training accuracy of 99.6 %
* Total Number of parameters: 3693253
* Best Model weights: 43MB