Classifiers for Hand gesture recognition:

* Hidden Markov Model classifier : Low letter error rate of 9%. Data of only two persons.
* DBN classifier
* Random Forest Classifier
* Smrf algorithm( Improved version of random forest): improved scalable Random Forest algorithm based on Map Reduce model. This new algorithm makes data classification in computer cluster or cloud computing environment for massive datasets. SMRF processes and optimizes the subsets of the data across multiple participating computing nodes by distributing. The experimental results show that the SMRF algorithm has the equally accuracy degradation but higher performance while comparing with traditional Random Forest algorithm. SMRF algorithm is more suitable to classify massive data sets in distributing computing environment than traditional Random Forest algorithm.
* K nearest neighbor
* Naïve bayes
* Artificial neural network
* Support vector machines(works best on high dimensional data)
* 3D convolutional neural network