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| --- | --- | --- | --- | --- |
| Name | Characteristics | Techniques & Models | Publisher | Accuracy |
| Custom Made dataset of gesture images. | 1)all alphabets (A-Z) and numerics (1-9).  2)Total classes = 35. Each class has 1200 images  3)Train-Test ratio of **70:30.** | i) Image segmentation (masking to get raw skin and edges in the image) ii) SURF Feature detection (finding feature descriptors for all data) iii) K-means clustering (Codebook generation: to cluster all features and to get visual words (bow)) iv) Histograms computation (Using visual words (bow) compute histograms for each image) v) SVM model for classification (input: histograms, output: predection for testdata) | [Karthikeyu](https://github.com/Karthikeyu)  <https://www.iosrjournals.org/iosr-jce/papers/Vol22-issue3/Series-1/B2203011419.pdf> | 98% accuracy approximately. |
| * Implemented alphabets (A-Z) * 800 images to Train and 200 images to test. * Train-Test ratio **80:20**. | * Used **CNN** * **Adaptive Thresholding** * Used **Gray scale & Gaussian** **Blur** technique to obtain higher accuracy. |  | 98% accuracy approximately. |
| * Dual mode of recognition is implemented. * all the alphabets (A-Z) and digits (0-9).   Train-Test ratio of **80:20**. | * Canny Edge Detection * Tested with classifiers like:  1. **KNN** 2. **SVM** 3. **Logistic regression &** 4. **CNN** |  |  |

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