**PROBLEM STATEMENT:**

In this project we are attempting to classify the various characters, into one of the characters in the Devanagari script fed as dataset as we take the input via the webcam, where it sees the hand gestures we make and infer the characters drawn by hand as Devanagari letters within the limits of the errors .

**CRITICAL STEPS/ALGORITHM(STEPS CARRIED OUT):**

This problem was basically broken down into three main sub problems:-

1. Creating the model.
2. For this we create Building\_Model.py that provides the foundation for this project.
3. Training the model using the dataset we provide.
4. Testing the model to predict and check the outcome. Run the program to see the model via webcam. Run devanagari\_application.py

**FUNCTIONALITIES:**

1. Filters to detect what the hand is writing.
2. CNN for training the model.

**PYTHON IMPLEMENTATION:**

1. Network Used- Convolutional Neural Network

**RESULTS**:

Entailed in the project results.

**CONCLUSION:**

The computer is able to successfully predict the hand drawn characters from the webcam into one of the Devanagari script letters fed to it during it’s training phase and with reasonable accuracy as a part of Supervised Machine Learning.