**IMPLEMENTATION:**

**MODULES:**

* User
* Admin
* Machine Learning

**MODULES DESCRIPTION:**

**User:**

The User can register first. While registering he required a valid user email and mobile for further communications. Once the user register then admin can activate the user. Once admin activated the user then user can login into our system. User can upload the dataset based on our dataset column matched. For algorithm execution data must be in int or float format. Here we took   
Adacel Technologies Limited dataset for testing purpose. User can also add the new data for existing dataset based on our Django application. User can click the Data Preparations in the web page so that the data cleaning process will be starts. The cleaned data and its required graph will be displayed.

**Admin:**

Admin can login with his login details. Admin can activate the registered users. Once he activate then only the user can login into our system. Admin can view Users and he can view overall data in the browser and he load the data. Admin can view the training data list and test data list. Admin can load the data and view forecast results.

**Machine Learning**:

The paper discusses Human Action Recognition (HAR) using both Machine Learning (ML) and Deep Learning (DL) techniques. Traditional ML methods like random forest, Bayesian networks, Markov models, and support vector machines have been used to address challenges such as cluttered backgrounds and noise. However, these methods require extensive preprocessing and feature engineering. In contrast, DL approaches, particularly convolutional neural networks (CNNs), have gained prominence due to their ability to automatically learn features from raw data, reducing the need for manual feature extraction. The paper highlights the effectiveness of DL models, such as VGG19, DenseNet, and EfficientNet, which leverage pre-trained networks and transfer learning to achieve high accuracy in action classification tasks, as demonstrated on the UCF50 dataset.