PROJECT FLOW

- Download/Create dataset.

- Augment the dataset

- Pre-process the images and load the data of images into Numpy Arrays.

- Perform a Train Test Split on the dataset.

- Define the model creation function: adding all the neural network layers required.

- Fit the model on train data and check for accuracies using test data as well.

- Save the model and its dependencies.

- Build a Web application using flask that integrates with the model built.

Image dataset → dataset pre-processing → Data Augmentation → Train set → CNN algorithm → Model evaluation

Data Augmentation → Test set → Model evaluation

Model evaluation → Final Model → Web Interface

User → (Input) → Web Interface → Prediction