Computer Vision Project Progress Report

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Progress Report

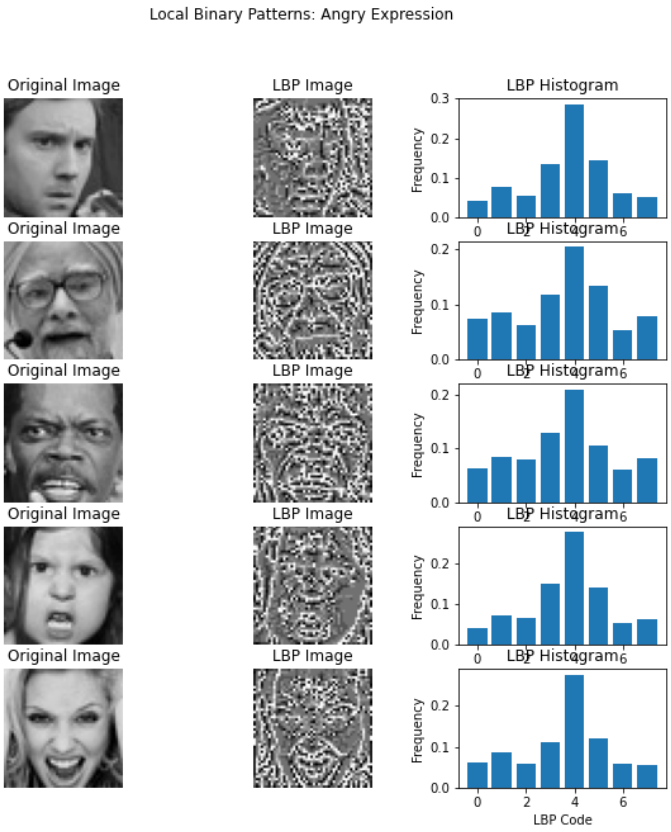
Based on our timeline we needed to identify the scope of the items in the list and implement local binary patterns for the images

Datasets

1. For the Yale Face data set we see that the number of images available for each expression is skewed so we need to use a balanced data set, so the model is trained properly.
2. I am building this programmatically into the code. The list of all the images names including the path is stored into a dictionary with key name the expression for which the image belongs for. This way I can limit the number of images we read for each expression.

Code

Successfully implemented Local Binary Patterns for a specific expression using the library skimage for implementation of Local Binary Patterns.



Timeline

Emotion Recognition system		March	March	March	March	April	April	April	April	May	May
Srno	items / Tasks	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
1	Identify objectives and scope										
2	Implementation of standard LBP										
3	Implementation of CNN										
4	Optimization and hyperparameter tuning										

1.