WEEK 5
COUNTING IN DENSE CROWDS USING DEEP LEARNING

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LAST WEEK

- Created Main Script for Experiment
- Trained SVM Classifier
- Began Testing Data
- Obtained a Different Version of Previous Code
  - (V 09 Counting Code)
5-FOLD VALIDATION SETTING

- Shifted to working in a 5 fold validation setting
- Generated all the kernels for this setting using the features that were extracted from the images
- Trained an SVM classifier
- Obtained results by testing the model
ERRORS & CHALLENGES

• Very large error values for mean-squared error
• Presently analyzing code and variables to find any errors
• Attempting different changes to see any improvement
OTHER METHODS

- Also attempting to change the kernel values for LibSVM
  - Tweaking parameters –e from 1 to 0.01

- Previous method:
  - L2 Normalization -> Compute Kernels -> train SVM
  - L1 Normalization -> Generate Homogenous Kernels -> L2 Normalization -> train SVM
  - Meaningful results
NEXT STEPS

• Fix Errors & Test SVM classifier again

• Start working with Fisher Vectors

• Begin researching and working on videos