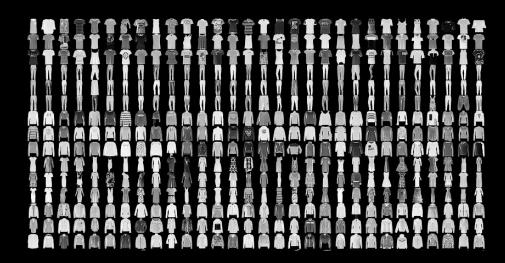
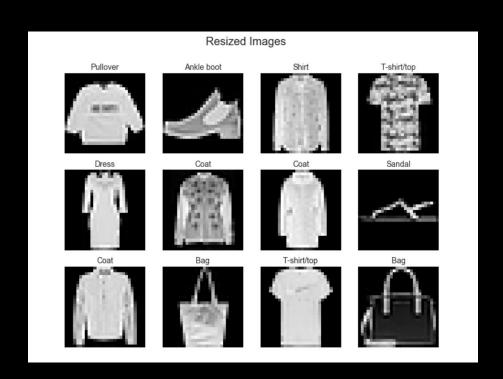
Image Classification with the Fashion M-NIST

Emily Pfeifer



The Data

- 60,000 images
- Zalando Research
- 28X28
- greyscale



Model 1

93.5% accuracy

Output Shape Layer (type) Param # conv2d 22 (Conv2D) (None, 28, 28, 32) 832 conv2d 23 (Conv2D) (None, 28, 28, 32) 25632 max pooling2d 13 (MaxPooling (None, 14, 14, 32) 0 dropout 23 (Dropout) (None, 14, 14, 32) 0 conv2d 24 (Conv2D) (None, 14, 14, 64) 18496 conv2d 25 (Conv2D) (None, 14, 14, 64) 36928 max pooling2d 14 (MaxPooling (None, 7, 7, 64) 0 dropout_24 (Dropout) (None, 7, 7, 64) 0 flatten_7 (Flatten) (None, 3136) 0 dense 13 (Dense) (None, 256) 803072 dropout_25 (Dropout) (None, 256) 0 dense 14 (Dense) (None, 10) 2570 _____ Total params: 887,530 Trainable params: 887,530 Non-trainable params: 0

In [110]: model.summary()

Model: "sequential_9"

Data Augmentation

Behind the Scenes

- Number of Epochs
- Batch Size
- CNN Parameters
- Data Image Generator Parameters

Evaluations

- Confusion Matrix
- Classification Report
- Accuracy Visualization
- Loss Visualization
- Displaying Errors
 - Activations

