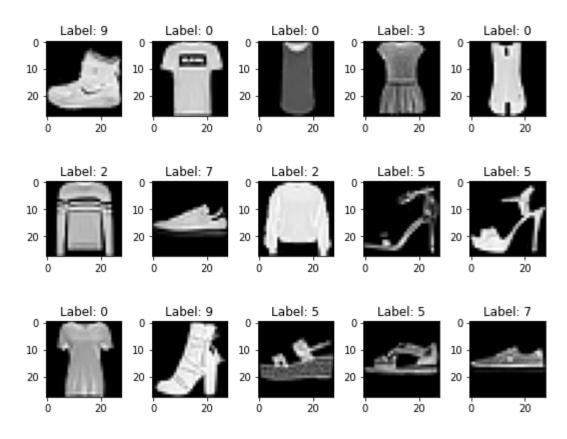
By Sang Moon

Source: Coursera course



Input images: Fashion MNIST

- Dimension of the image is 28 by 28.
- There are 60000 training images and 10000 testing images.

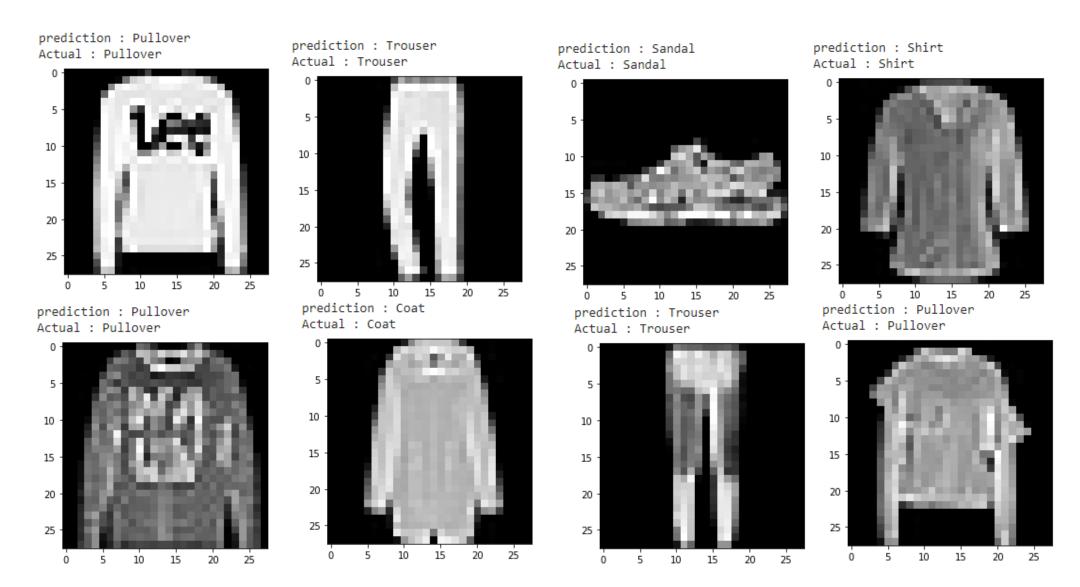
Label	Description
0	T-shirt/top
1	Trouser
2	Pullover
3	Dress
4	Coat
5	Sandal
6	Shirt
7	Sneaker
8	Bag
9	Ankle boot

Classification: CNN Model: "sequential"

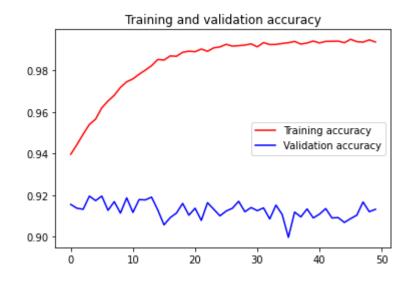
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 28, 28, 16)	160
<pre>max_pooling2d (MaxPooling2D)</pre>	(None, 14, 14, 16)	0
conv2d_1 (Conv2D)	(None, 14, 14, 32)	4640
<pre>max_pooling2d_1 (MaxPooling 2D)</pre>	(None, 7, 7, 32)	0
conv2d_2 (Conv2D)	(None, 7, 7, 64)	18496
<pre>max_pooling2d_2 (MaxPooling 2D)</pre>	(None, 3, 3, 64)	0
conv2d_3 (Conv2D)	(None, 3, 3, 128)	73856
<pre>global_average_pooling2d (G lobalAveragePooling2D)</pre>	(None, 128)	0
dense (Dense)	(None, 10)	1290
Total params: 98,442 Trainable params: 98,442 Non-trainable params: 0		

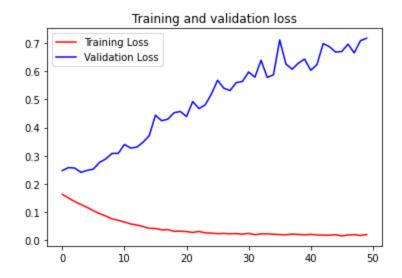
- There are 4 convolution layers followed by pooling layers.
- The final Dense layer will output the probabilities for each class.

Classification result after 50 epochs



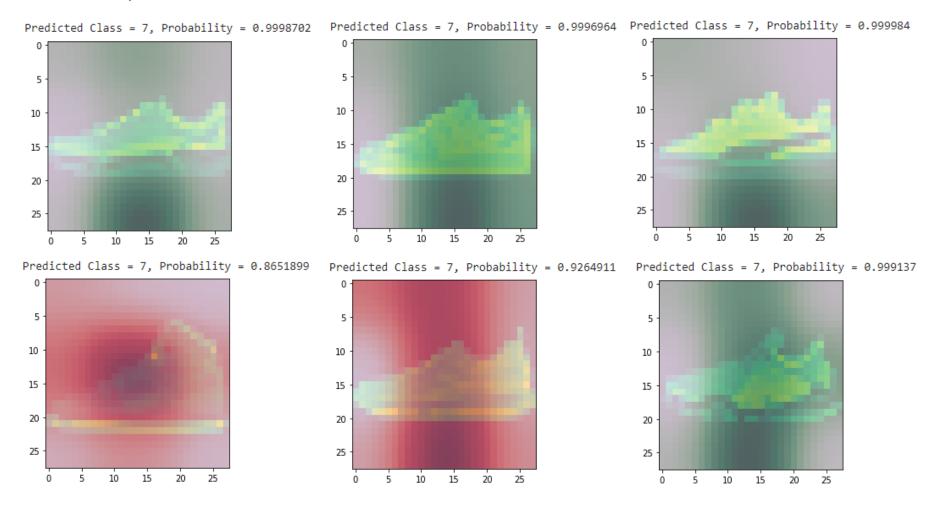
Classification result after 50 epochs





Validation data shows the model overfit to the training data.

Class activation map



Dart spots were given less importance when categorizing the image