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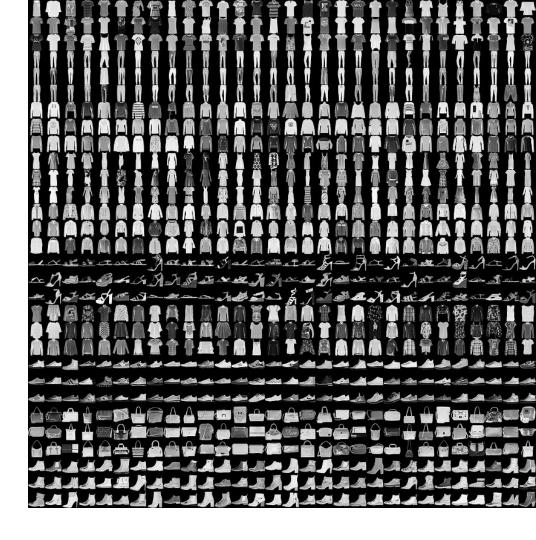






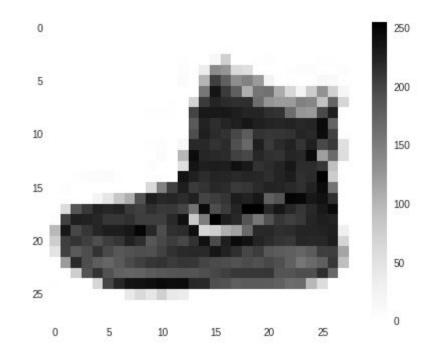
Fashion MNIST

- 70k Images
- 10 Categories
- Images are 28x28
- Can train a neural net!



Fashion MNIST

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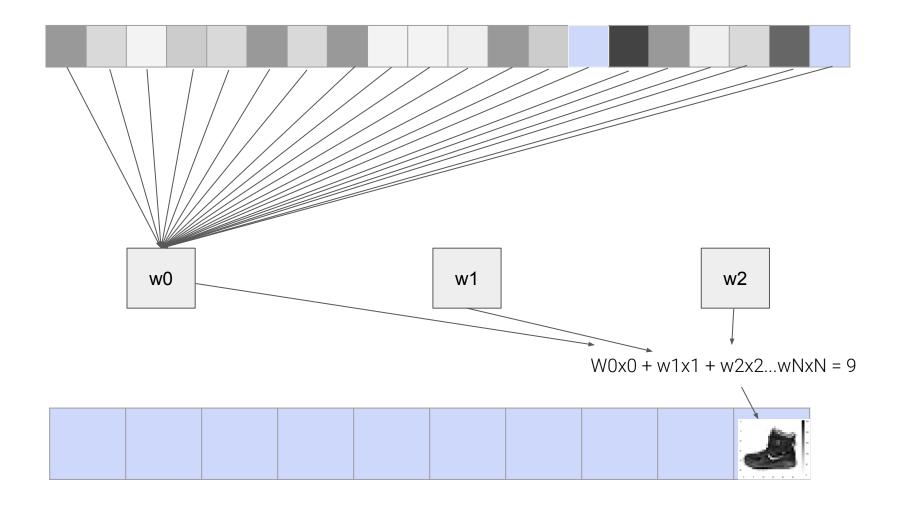
```
fashion_mnist = tf.keras.datasets.fashion_mnist
(train_images, train_labels), (test_images, test_labels) = fashion_mnist.load_data()
```

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                                                          fashion_mnist.load_data()
```

```
import tensorflow as tf
from tensorflow import keras
```

```
mnist = tf.keras.datasets.fashion_mnist
                                               mnist.load_data()
(train_images, train_labels), (test_images, test_labels)
                                        09 = ankle boot;
                                               踝靴;
                                              アンクルブーツ;
                                               Bróg rúitín
```

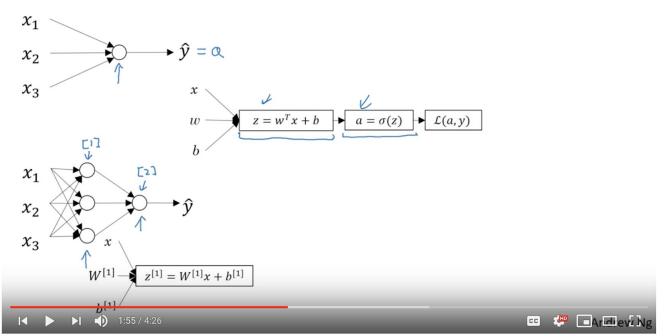
```
model = keras.Sequential([
    keras.layers.Flatten(),
    keras.layers.Dense(128, activation=tf.nn.relu),
    keras.layers.Dense(10, activation=tf.nn.softmax)
```

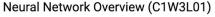




https://youtu.be/fXOsFF95ifk

What is a Neural Network?





11,067 views





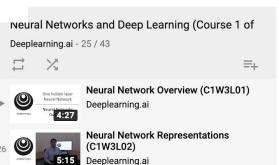


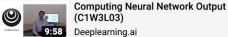




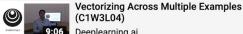












Deeplearning.ai





Why Non linear Activation Eurotions



Complete User Registration system using PHP and MySQL...

Awa Melvine 5.7M views

32:43

```
mnist = tf.keras.datasets.fashion_mnist
  (training_images, training_labels), (test_images, test_labels) = mnist.load_data()
  training_images=training_images/255.0
  test_images=test_images/255.0
  model = tf.keras.models.Sequential([
    tf.keras.layers.Flatten(),
    tf.keras.layers.Dense(512, activation=tf.nn.relu),
    tf.keras.layers.Dense(10, activation=tf.nn.softmax)
])
  model.compile(optimizer=tf.optimizers.Adam(), loss='sparse_categorical_crossentropy')
  model.fit(training_images, training_labels, epochs=5)
```

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  model.fit(training_images, training_labels, epochs=5)
```

```
class myCallback(tf.keras.callbacks.Callback):
    def on_epoch_end(self, epoch, logs={}):
        if(logs.get('loss')<0.4):
        print("\nLoss is low so cancelling training!")
        self.model.stop_training = True</pre>
```

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model.compile(optimizer=tf.optimizers.Adam()', loss='sparse_categorical_crossentropy')
```

model.fit(training_images, training_labels, epochs=5)

```
callbacks = myCallback()

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training_images=training_images/255.0
test_images=test_images/255.0
model = tf.keras.models.Sequential([
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  tf.keras.layers.Dense(512, activation=tf.nn.relu),
  tf.keras.layers.Dense(10, activation=tf.nn.softmax)
model.compile(optimizer=tf.optimizers.Adam(), loss='sparse_categorical_crossentropy')
model.fit(training_images, training_labels, epochs=5, callbacks=[callbacks])
```