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1
    from keras.utils import np_utils
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   from keras.datasets import mnist
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   from keras.models import Sequential
   from keras.layers import Dense
   # MN/ST data
    (train_images, train_labels), (test_images, test_labels) = mnist.load_data()
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    print(train_images.shape, train_labels.shape, test_images.shape, test_labels.shape)
   train_images = train_images.reshape(train_images.shape[0], 784).astype('float32')/255.0
8
    test_images = test_images.reshape(test_images.shape[0], 784).astype('float32')/255.0
    train_labels = np_utils.to_categorical(train_labels) # One-Hot Encoding
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    test_labels = np_utils.to_categorical(test_labels) # One-Hot Encoding
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    # Model
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    model = Sequential()
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    model.add(Dense(1, activation='relu')) # units=256, activation='relu'
    model.add(Dense(256, activation='relu')) # units=256, activation='relu'
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    model.add(Dense(512, activation='relu')) # units=256, activation='relu'
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    model.add(Dense(10, activation='softmax')) # units=10, activation='softmax'
   model.compile(loss='categorical_crossentropy', optimizer='sgd', metrics=['accuracy'])
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    # Training
    model.fit(train_images, train_labels, epochs=10, batch_size=128, verbose=1)
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   # Testing
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22
    _, accuracy = model.evaluate(test_images, test_labels)
   print('Accuracy: ', accuracy)
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24
   model.summary()
25
26
```