"DeepLearning.AI TensorFlow Developer" Specialization

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Introduction to TensorFlow for AI, ML, and DL

1.1 Week 1 • Simple example aka "Hello, World!": Define NN (1 layer with 1 neuron): # Build a simple Sequential model model = tf.keras.Sequential([keras.layers.Dense(units=1, input_shape=[1])] Compile the model: model.compile(optimizer='sgd', loss='mean_squared_error') Provide the data: # Declare model inputs and outputs for training xs = np.array([-1.0, 0.0, 1.0, 2.0, 3.0, 4.0], dtype=float)ys = np.array([-3.0, -1.0, 1.0, 3.0, 5.0, 7.0], dtype=float)Train the NN: # Train the model model.fit(xs, ys, epochs=500) Use trained NN for new data: # Make a prediction print(model.predict([10.0]))

1.2 Week 2