**CSC 417 Unit 2 Day 8 Outline**

Note: this day’s material will not appear on any assessment activity – it is provided for student reference only

1. Neural Network Implementation Resources
   1. scikit-learn (<https://sklearn.org/>)
      1. Python machine learning library
      2. Provides tools for all stages of the machine learning process (data preprocessing, model selection, training, analysis, etc.)
      3. Neural network implementations are a bit “bare bones” – not suited to large networks or complex tasks
   2. Keras (<https://keras.io/>)
      1. Python library which implements the TensorFlow neural network framework (Google)
      2. Popular for a variety of neural network and deep learning tasks
      3. Tutorials available at Keras website
         1. <https://keras.io/getting_started/>
   3. PyTorch (<https://pytorch.org/>)
      1. Python library which implements the Torch neural network framework (Facebook)
         1. Torch development ended in 2018, but PyTorch development is ongoing
      2. Another widely used deep learning library
      3. Tutorials available at PyTorch website
         1. <https://pytorch.org/tutorials/>
   4. Additional Resources
      1. NVIDIA Developer Resources
         1. <https://developer.nvidia.com/>
      2. Microsoft Azure AI
         1. <https://azure.microsoft.com/en-us/overview/ai-platform/>