## **CPE 232 Data Models**

## **HW 4: Data Visualization and EDA**

Use the covertype dataset and plot an appropriate visualization to answer the following questions:

- Distribution of cover type across different wilderness type
- Distribution of elevation on each cover type
- Number of data points on each climatic zone
- Which cover type dominates subalpine climate?
- Which cover type is likely to be found near a body of water?
- Which cover type is likely to be found in a shady area from 9 am to noon?
- Which cover type is likely to be found away from hazardous points (roadways/firepoints)?
- Determine whether elevation provides more information to distinguish Krummholz from Cottonwood/Willow than horizontal distance to hydrology?
- Compare the relationship between Krummholz and Cottonwood/Willow to geographical features (elevation, distance to hydrology, hillshade, etc.).
- Plot histogram of elevation, aspect, and slope. Discuss the shape of the distribution.
- For each member in your group, plot another useful visualization from this dataset.