**Using PyTorch to classify cats and dogs**

Objective:

* Build a model that classifies cats and dogs

1. Loading the dataset:
2. Understanding the dataset: pattern = glob.glob(f”{image\_path}/\*/\*/\*.jpg”), where “\*” represents any combination or symbol
   1. Ran into the following error: “cannot choose from an empty sequence.”
      1. Potential causes: incorrect path or pattern, no matching files, etc
      2. Turns out I put an extra asterisk when I was defining “pattern”
3. Np.asarray: converts the image into a contiguous array of pixel values
4. Transforming the data (also known as preprocessing) 🡪 followed by data augmentation (data augmentation is useful when the model is prone to overfitting or when there isn’t enough data)
   1. Reduces the risk of bias or any errors caused by invalid data types
   2. A dog standing on grass

      Description automatically generated
   3. A dog behind a fence

      Description automatically generated
   4. A cat lying on a bed

      Description automatically generated