

Floppy

Floppy

Round

Round

Absent

Absent

0

0

For simplicity, we will consider:

- Ear Shape: Pointy = 1, Floppy = 0
- Face Shape: Round = 1, Not Round = 0
- Whiskers: Present = 1, Absent = 0

Therefore, we have two sets:

- X train: for each example, contains 3 features:
 - Ear Shape (1 if pointy, 0 otherwise)
 - Face Shape (1 if round, 0 otherwise)
 - Whiskers (1 if present, 0 otherwise)
- y_train : whether the animal is a cat
 - 1 if the animal is a cat
 - 0 otherwise

```
In [ ]: import pandas as pd
        import numpy as np
        import matplotlib.pyplot as plt
        from utils import
In [ ]: |X_train = np.array([[1, 1, 1],
        [0, 0, 1],
         [0, 1, 0],
         [1, 0, 1],
         [1, 1, 1],
         [1, 1, 0],
         [0, 0, 0],
         [1, 1, 0],
         [0, 1, 0],
```