

# Week 10

STA130F24 TUT

## Two-Sample Hypothesis Test (Pokemon Dataset)

$$H_0 : \mu_{\text{attack}} = \mu_{\text{defense}}$$

**Null Hypothesis ( $H_0$ ):** The mean difference between "Attack" and "Defense" stats is zero, i.e.,  $\mu_{\text{Attack} - \text{Defense}} = 0$ .

There are two **methods** to verify this:

1. Bootstrapping
2. Permutation Test