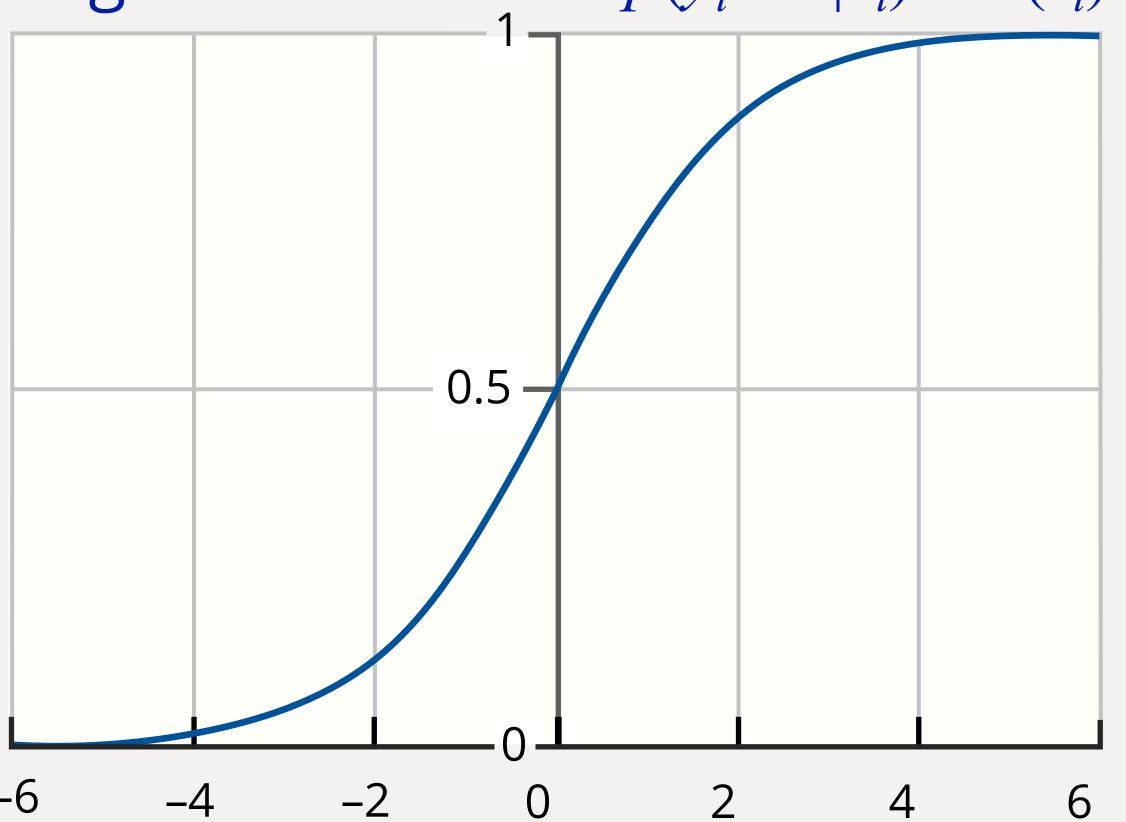


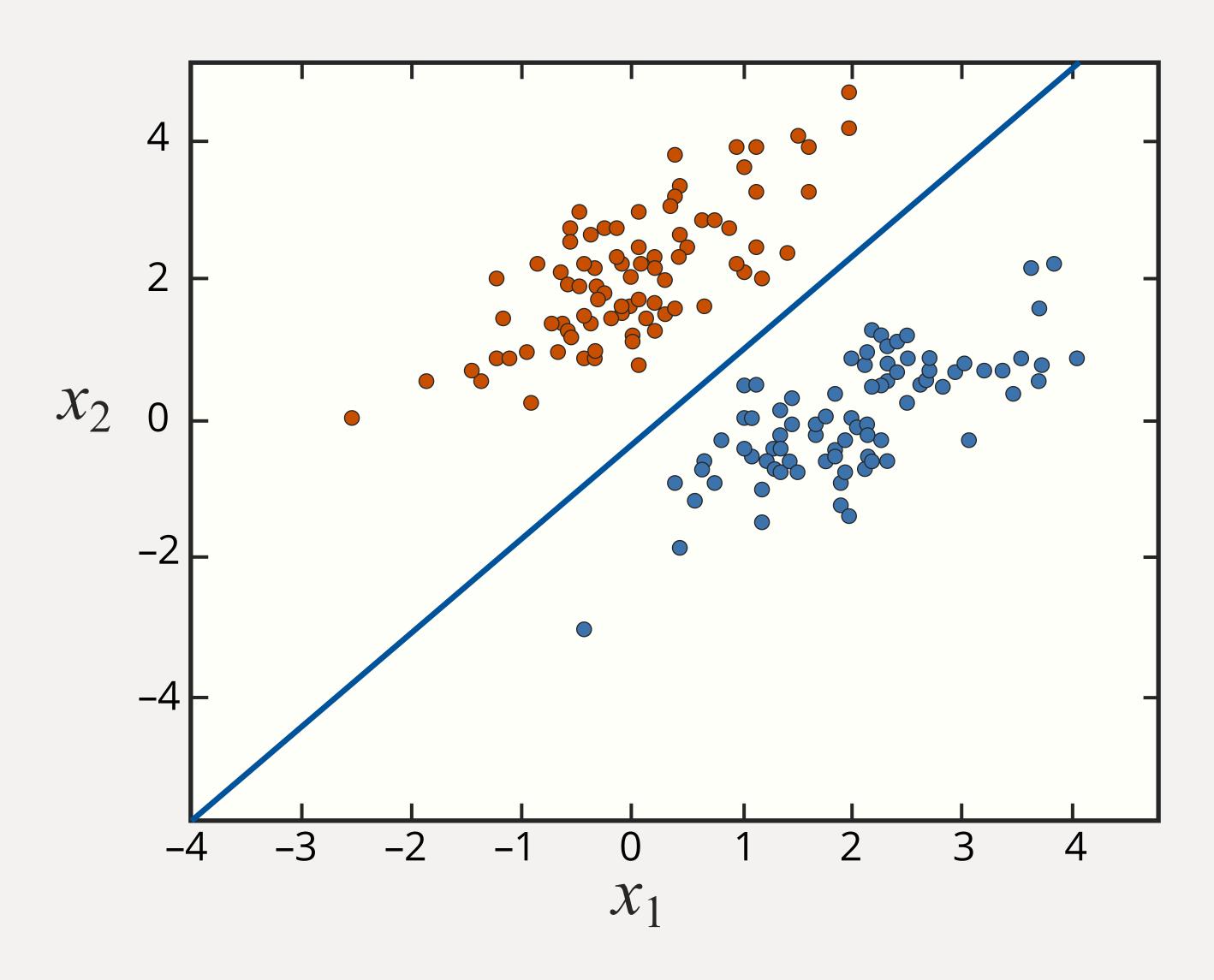
Logistic Regression

Sigmoid Function $p(y_i = 1 | x_i) = \sigma(z_i)$



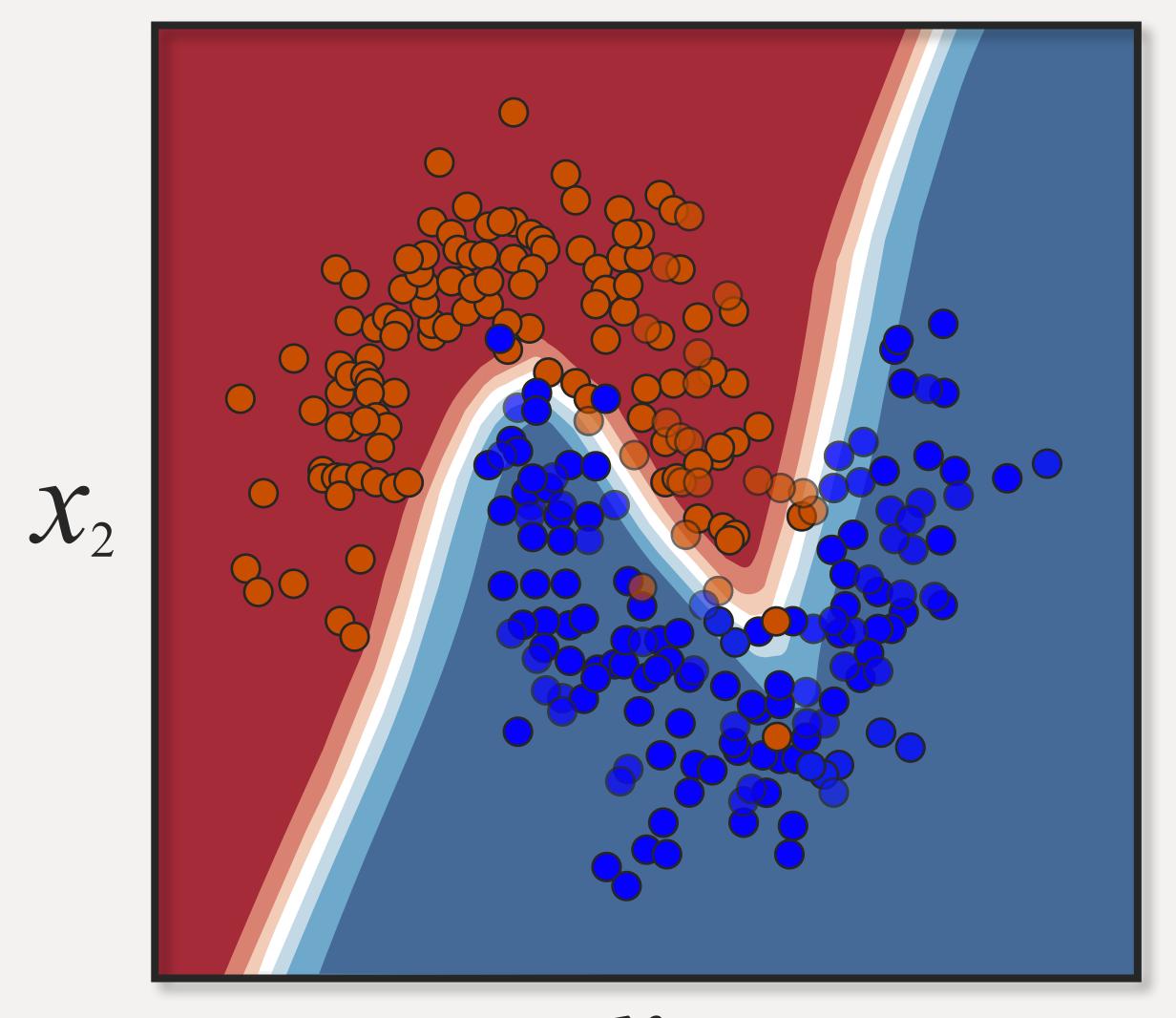
$$Z_i$$

Limitations of Logistic Regression



Linear

- Linear classifiers can only represent limited relationships
- Often want to use a classifier that can handle non-linearities



 \boldsymbol{X}_1

