

Figure 4.8: Feature Selection Strategies

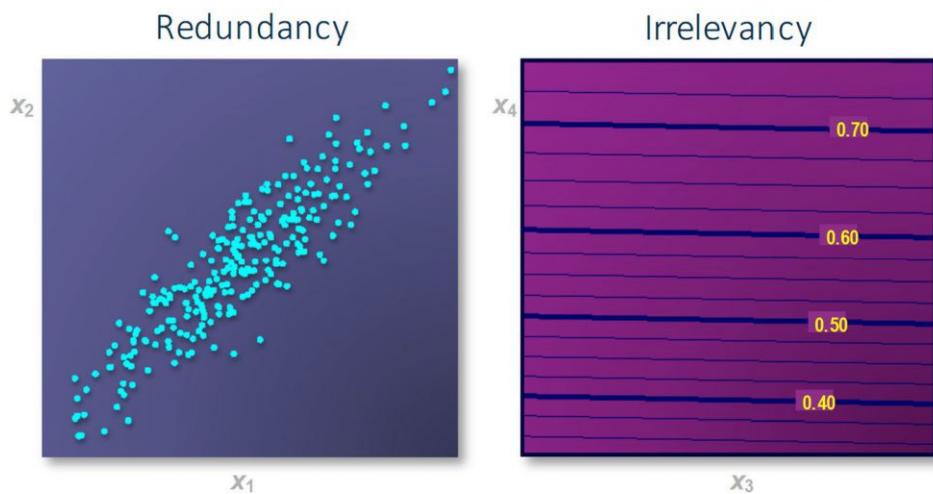
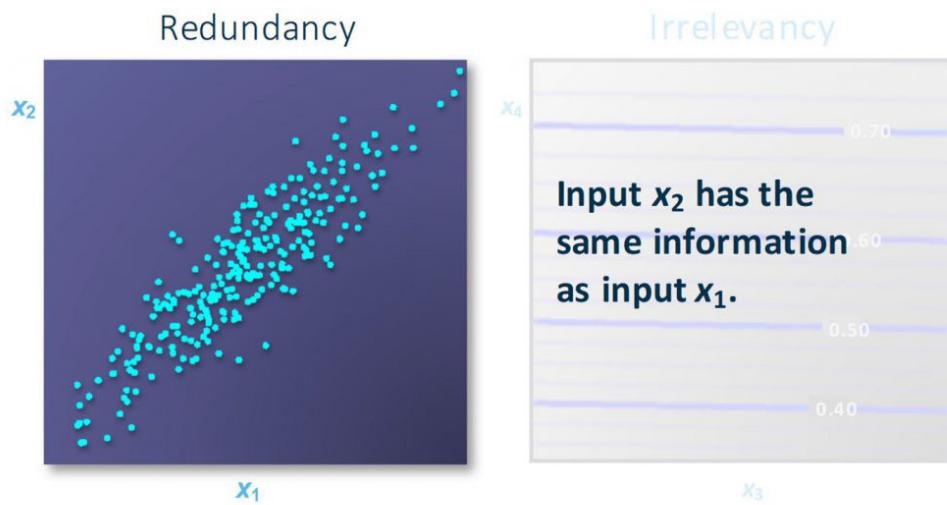
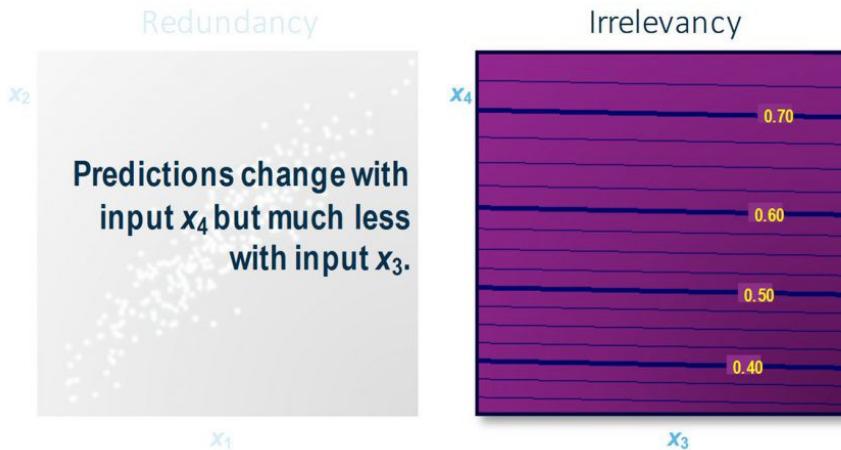


Figure 4.9: Supervised Selection



Example:  $x_1$  is household income and  $x_2$  is home value.

Figure 4.10: Supervised Selection



Example: Target is the response to direct mail solicitation,  $x_3$  is religious affiliation, and  $x_4$  is the response to previous solicitations.

Figure 5.3: Logistic Regression Example

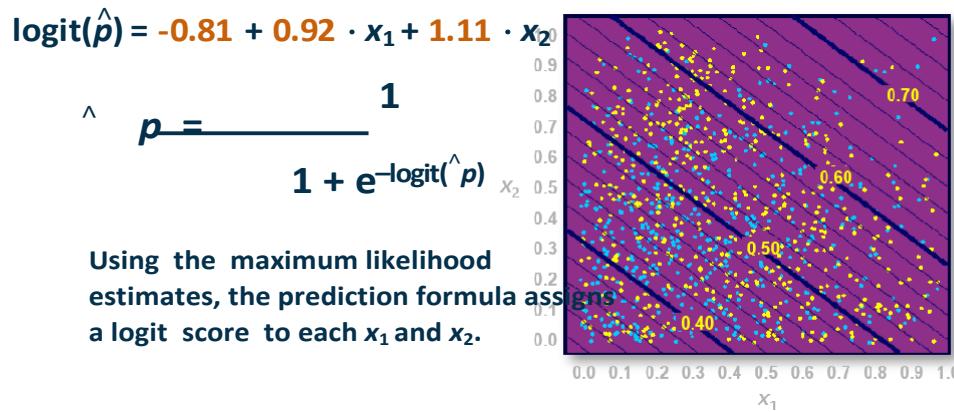


Figure 6.1: Classification Tree

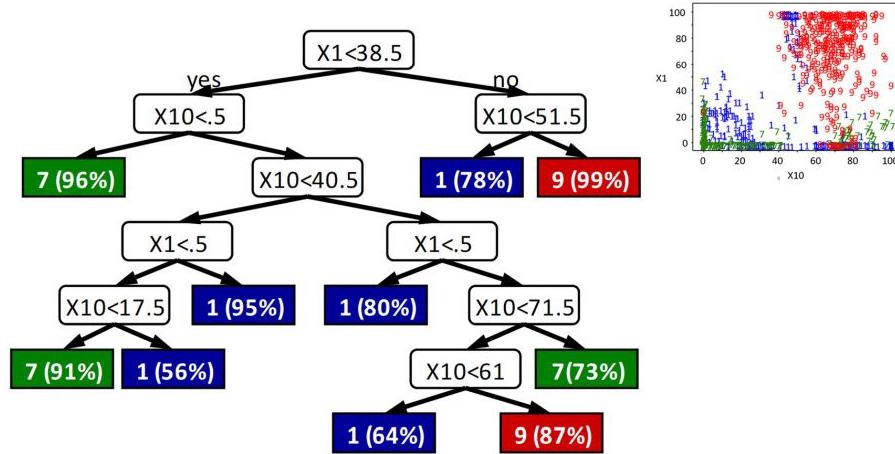


Figure 6.3: Simple Prediction

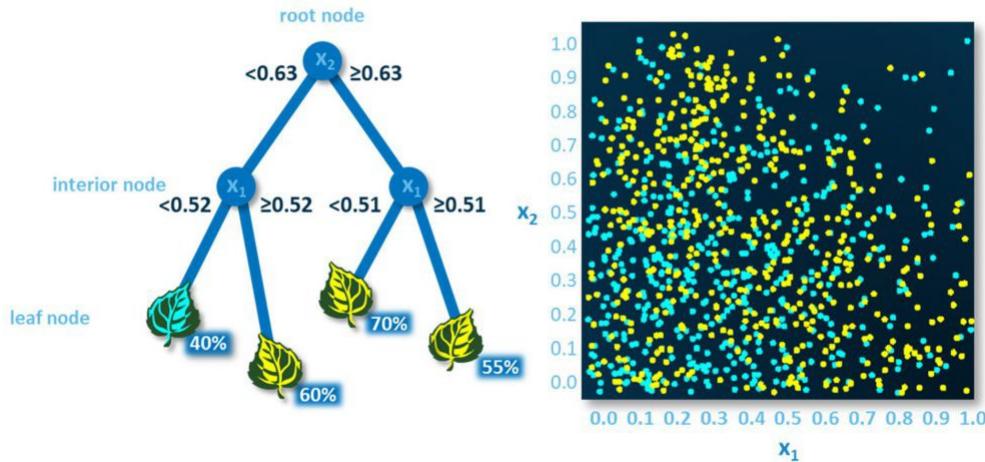


Figure 6.4: Scoring a New Case

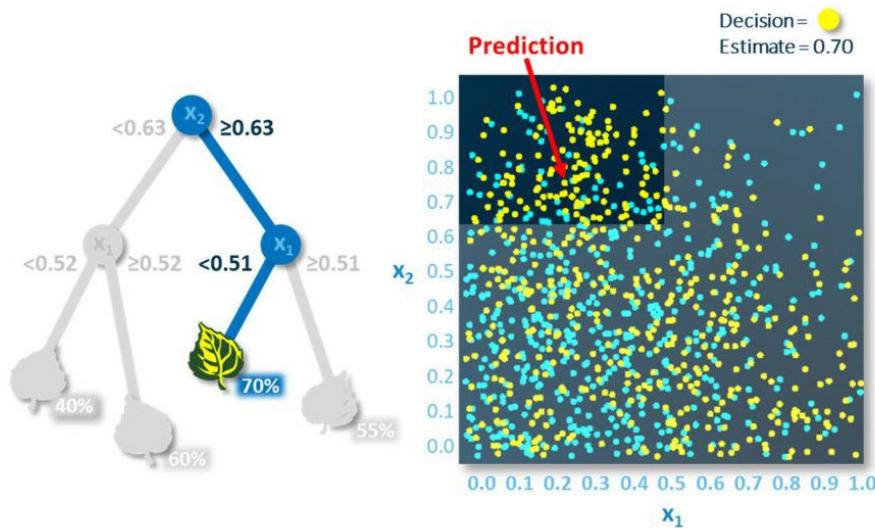


Figure 7.4: Surrogate Splits

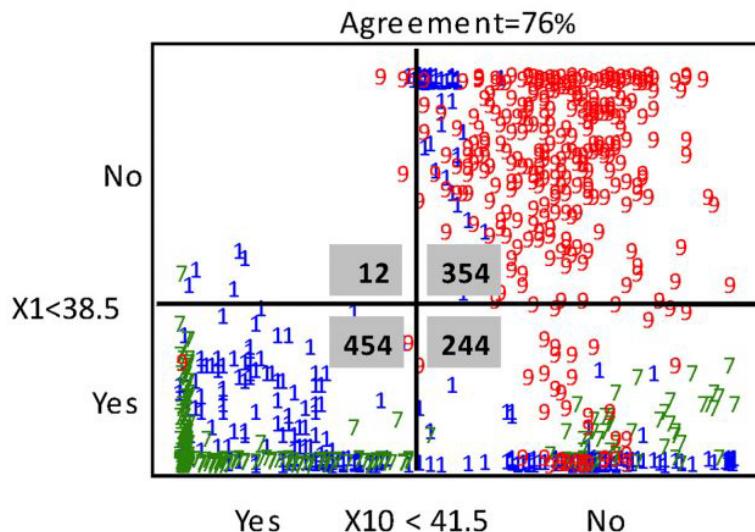


Figure 8.1: Instability

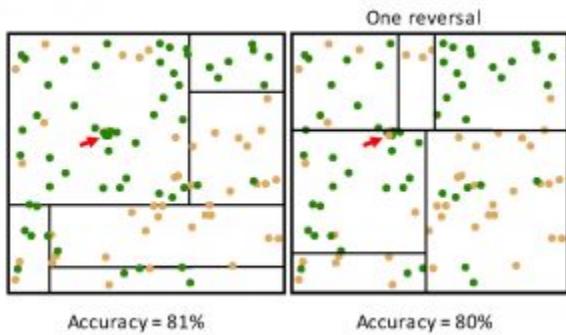


Figure 8.2: Competitor Splits

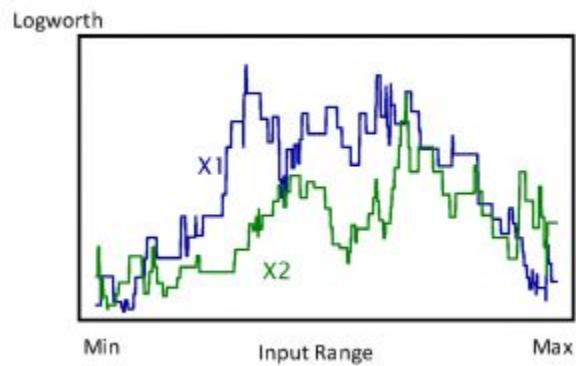


Figure 10.2: Global and Local Minima

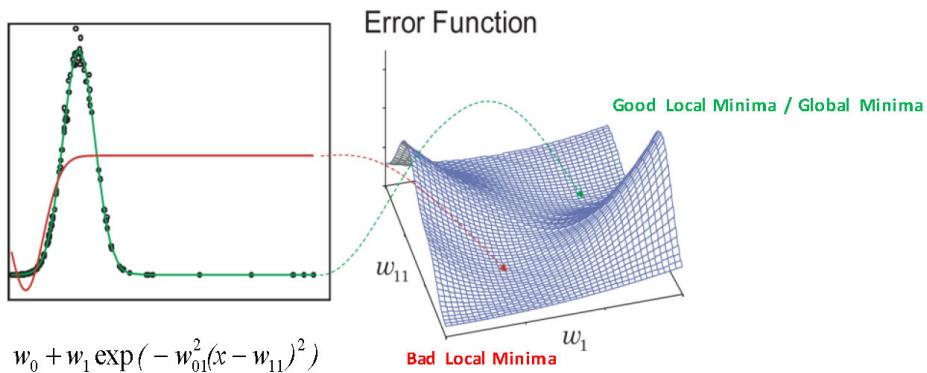


Figure 10.10: Initial values

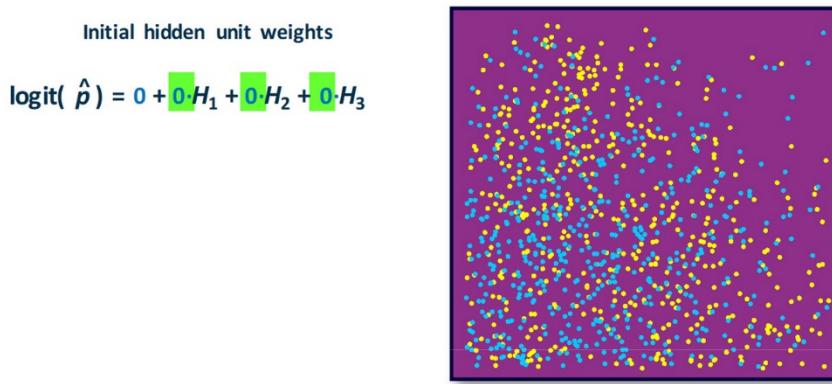


Figure 10.11: Random Initial Input Weights and Biases

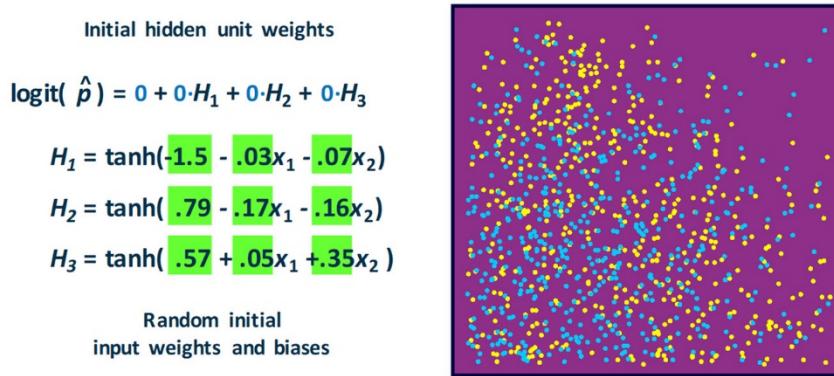


Figure 10.12: Early Stopping – Initial Step Set up to Predict the Overall Average Response

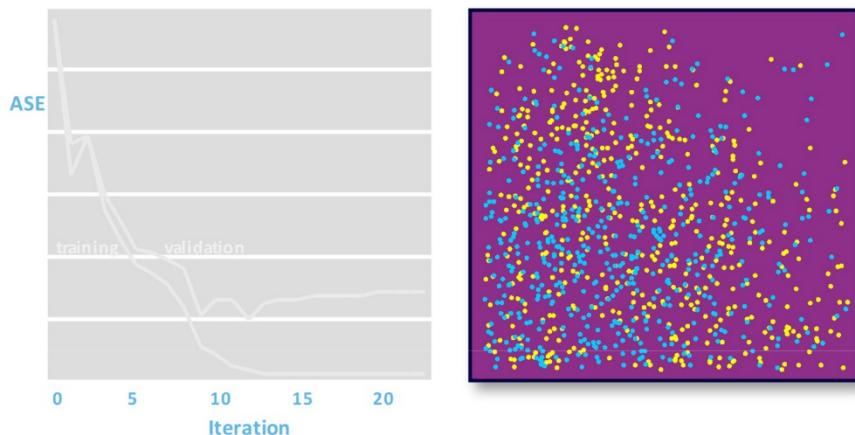


Figure 10.13: Early Stopping – ASE Error for Each Iteration

