

A scatter plot illustrating a linear decision boundary. The plot contains two clusters of data points: a purple cluster on the left and an orange cluster on the right. A solid red line, representing the decision boundary, runs diagonally from the bottom-left towards the top-right, separating the two clusters. The purple cluster is located to the left of the line, and the orange cluster is to the right. The background is white, and the axes are not explicitly labeled.

