

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 points are concentrated on the left side of the line, while the orange points are concentrated on the right side. There are a few outliers, such as a purple point near the top center and an orange point near the top right, that are not strictly aligned with the main cluster. The background is white, and the axes are not explicitly labeled.

