

A scatter plot illustrating a binary classification problem. The plot features two distinct clusters of data points on a white background. The cluster on the left is composed of numerous purple circular points, while the cluster on the right is composed of numerous orange circular points. A solid green line, representing a linear decision boundary, runs diagonally from the bottom-left towards the top-right, effectively separating the two clusters. The purple points are primarily located to the left of this line, and the orange points are primarily located to the right. There are a few outliers, such as a purple point near the top-right and an orange point near the bottom-left, relative to the main clusters.

