

A scatter plot illustrating a linear decision boundary. The x-axis ranges from 0 to 800, and the y-axis ranges from 0 to 1000. A green line, representing the decision boundary, slopes upwards from left to right, passing through approximately (350, 0) and (450, 1000). To the left of this line, there is a dense cluster of purple data points, centered around (200, 500). To the right of the line, there is a dense cluster of orange data points, centered around (650, 500). The two clusters are well-separated by the green line.

