

A scatter plot illustrating a non-linear classification problem. The plot features two classes of data points: yellow circles and blue squares. The background is divided into three distinct regions by a complex, non-linear decision boundary (indicated by a thick black line). The regions are colored: yellow (top-left), light green (bottom-left), and light blue (right). The yellow circles are primarily located in the yellow and light green regions, while the blue squares are primarily located in the light green and light blue regions. The decision boundary is highly irregular, following the local distribution of the data points.

x_1