# Limitations of Linear Regression

❌ Cannot handle non-linear decision boundaries naturally

❌ Assumes continuous output (not suitable for classification)

❌ Sensitive to outliers without robust variants

❌ Feature engineering required for complex patterns

❌ Interpretation difficult with many interaction terms

❌ Limited for categorical outcomes

## Why We Need Classification Algorithms

**?** Critical Question:

**What if output is categorical (yes/no)?**

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