



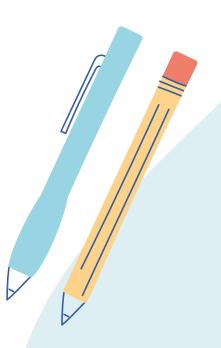
Summary Report

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Overview

- Ridge And Lasso
- Regression Algorithm Logistic
- Regression Algorithm



Ridge Regression Algorithm

• What it does:

Predicts numbers (like prices) and keeps the model from going overboard.

Makes all feature effects smaller so it's not too wild.

• How it works:

Adds a penalty: λ times the sum of squared feature numbers. Never deletes features, just shrinks them.

• When to use:

Good when all features might matter but need control.



Lasso Regression Algorithm

• What it does:

Predicts numbers and picks only the important features. Can totally remove stuff that doesn't help.

• How it works:

Adds a penalty: λ times the sum of absolute feature numbers. Some features get zeroed out.

• When to use:

Great when I only need a few key things from lots of data.

Logistic Regression Algorithm

• What it does:

Predicts yes/no answers (like "Will it rain?"). Gives a chance (probability) for each answer.

• How it works:

Uses a curve to turn numbers into 0-to-1 chances. Picks "yes" or "no" based on if it's over 0.5.

• When to use:

Perfect for simple choices like pass or fail.

