

Regularization in logistic regression

keep driving loss towards 0 in cases where the model has a large number of features. Consequently, most logistic regression models use one of the following two strategies to decrease model complexity: L₂ regularization

Regularization, a mechanism for penalizing model complexity during training, is extremely important in

logistic regression modeling. Without regularization, the asymptotic nature of logistic regression would

• y^\prime is your model's prediction (somewhere between 0 and 1), given the set of features in x.

or 1.

Note: You'll learn more about regularization in the <u>Datasets, Generalization, and Overfitting</u> module of the course.

• Early stopping: Limiting the number of training steps to halt training while loss is still decreasing.

- **Key terms:** • Gradient descent
 - Log Loss
 - Loss function

• Logistic regression

• <u>Linear regression</u>

- Overfitting
- <u>Regularization</u> • Squared loss

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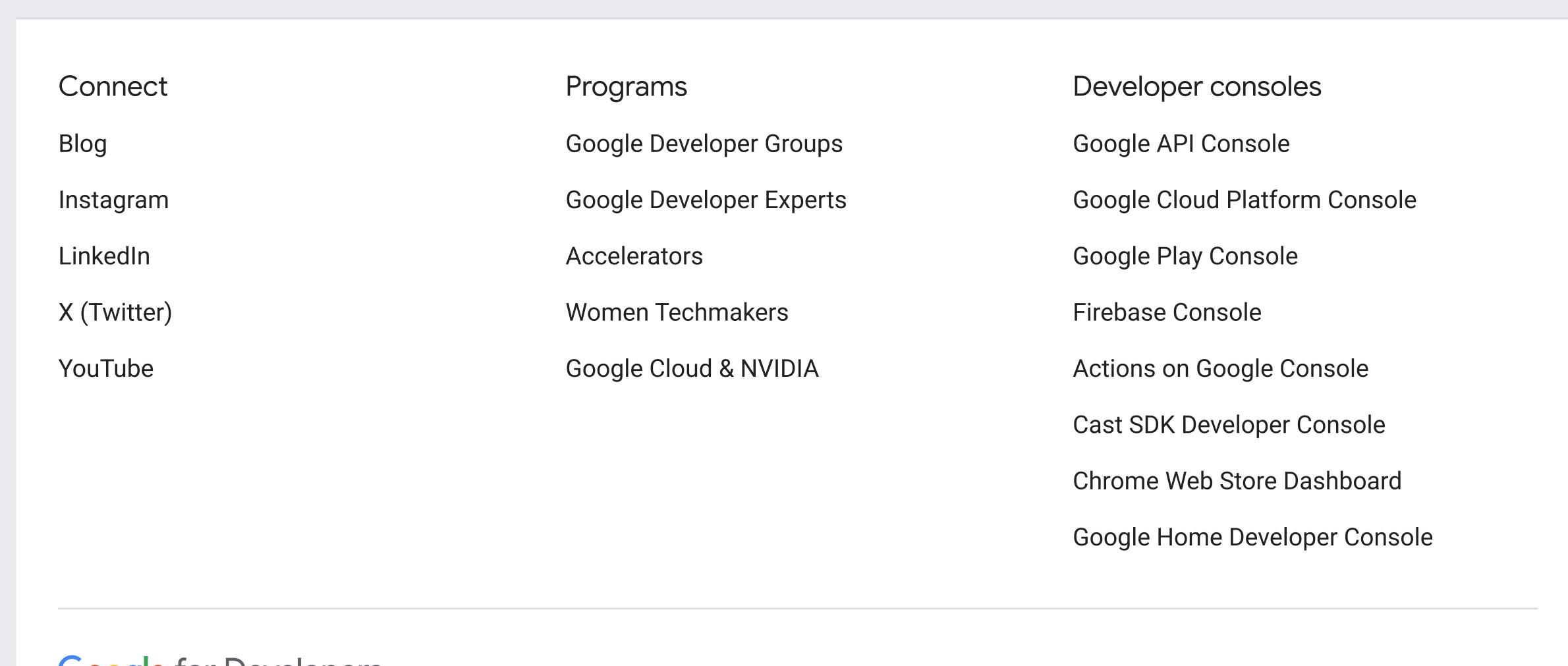
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