

Model	When to use	When not to use	does it use regularization	hyperparameters
Linear Regression	If the relationship between the variables is linear	When you want to avoid overfitting If the relationship is not linear	No	1.normalize:to normalize the input before fitting when the features have different scale 2. fit_intercept: calculating intercept or not 3.n_jobs: Specifie number of parallel job 4.copy_x :make copy of input features , useful to not alter of original data
Ridge	When you want to avoid overfitting And when you want to include all predictors in the model	In sparse data	Yes, L2	1.alpha: apply to shrinkage the coefficients, to reduce overfitting 2. max_iter: max number of iterations 3. normalize : to normalize before fitting 4.solver:use in the optimization problems
Lasso	When you want to select features and avoid overfitting	In large number of predictors	Yes, L1	.alpha: apply to shrinkage the coefficients, to reduce overfitting

				<p>2. max_iter: max number of iterations</p> <p>3. selection : to select features</p> <p>4.precompute : speed up calculations when number of sample smaller than number of features</p>
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