**[Que-50.14] - Explain the difference between LI and L2 regularization.**

### **L1 and L2 Regularization**

**L1 Regularization (Lasso):**

* Adds the absolute value of the coefficients as a penalty term to the cost function.
* Encourages sparsity in the model by driving some coefficients to zero.

**L2 Regularization (Ridge):**

* Adds the squared value of the coefficients as a penalty term to the cost function.
* Encourages small, but non-zero, coefficients, thus reducing the complexity of the model.