Regression Cost Fa

1) Mean Squared From

- · used for regression tasks
- . Sensitive to outliers due to squared term (i.e sensitive to very small / large values)
- · Average squared difference
- 2) Mean Absolute Frror

- · Average absolute difference
- · used for regression tasks, equal weights to all errors
- · less sensitive to large errors compared to MSE

3) Huber 1055

· combination of MSE & MAE

f = threshold

· Good for Regression with moderate outliers.

Classification cost fo

1) Binary Cross Entropy 1055 (Log 1053)

3) Hinge Loss

- · used in binary classification, esp. SVMs.
- · Focustages correct alassification with margin of separation L= 六 差 max (0, 1- yi gi)

Custom Loss Fn

- 1) Focal (oss
 - · used in imbolance classification tasks.
 - · modifies cross entropy to focus on aninority classes

a: Weight assign to class, High d = More contribution

Set d > 0.5 for minority class

set 8 = 2 to focus on difficult eg. like rare true positives.