## **Topic:** Crop Yield Prediction Using Neural Network

## **Data Segmentation:**

Training set	4952
Validation set	619
Test set	620

## **Model Specification:**

Layer (type)	Output Shape	Param #
dense_40 (Dense)	(None, 256)	30,720
dense_41 (Dense)	(None, 128)	32,896
dense_42 (Dense)	(None, 64)	8,256
dense_43 (Dense)	(None, 1)	65

Total params: 215,813 (843.02 KB)
Trainable params: 71,937 (281.00 KB)
Non-trainable params: 0 (0.00 B)
Optimizer params: 143,876 (562.02 KB)

## **Model Results:**

Training Set	
R-squared	0.9951
Mean Absolute Error	0.0112
Mean Squared Error	0.0002

Validation Set	
R-squared	0.8330
Mean Absolute Error	0.0575
Mean Squared Error	0.0076

Test Set	
R-squared	0.7828
Mean Absolute Error	0.0667
Mean Squared Error	0.0102

