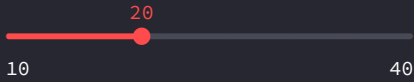
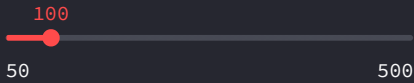


### Model Configuration

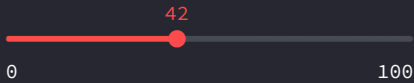
Test Size (%)



Number of Trees



Random State



### Predict Yield for Custom Input

Enter Crop\_Year

2009.13 - +

Enter Area

179926.57 - +

Enter Production

16435941.27 - +

Enter Annual\_Rainfall

1437.76 - +

Enter Fertilizer

24103312.45 - +

Enter Pesticide

48848.35 - +



# Crop Yield Prediction Using Random Forest

Upload Crop Yield Dataset



Drag and drop file here

Limit 200MB per file • CSV

Browse files



crop\_yield.csv 1.5MB



✓ Data Loaded Successfully!



## Dataset Preview

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
0	Areca nut	1997	Whole Year	Assam	73814	56708	2051.4	7024878.38	22882.34	0.7961
1	Arhar/Tur	1997	Kharif	Assam	6637	4685	2051.4	631643.29	2057.47	0.7104
2	Castor seed	1997	Kharif	Assam	796	22	2051.4	75755.32	246.76	0.2383
3	Coconut	1997	Whole Year	Assam	19656	126905000	2051.4	1870661.52	6093.36	5238.0517
4	Cotton(lint)	1997	Kharif	Assam	1739	794	2051.4	165500.63	539.09	0.4209

## Model Performance Metrics

Accuracy (100 - MAPE)

73.77%

MAE

7.2185

R<sup>2</sup> Score

0.9880



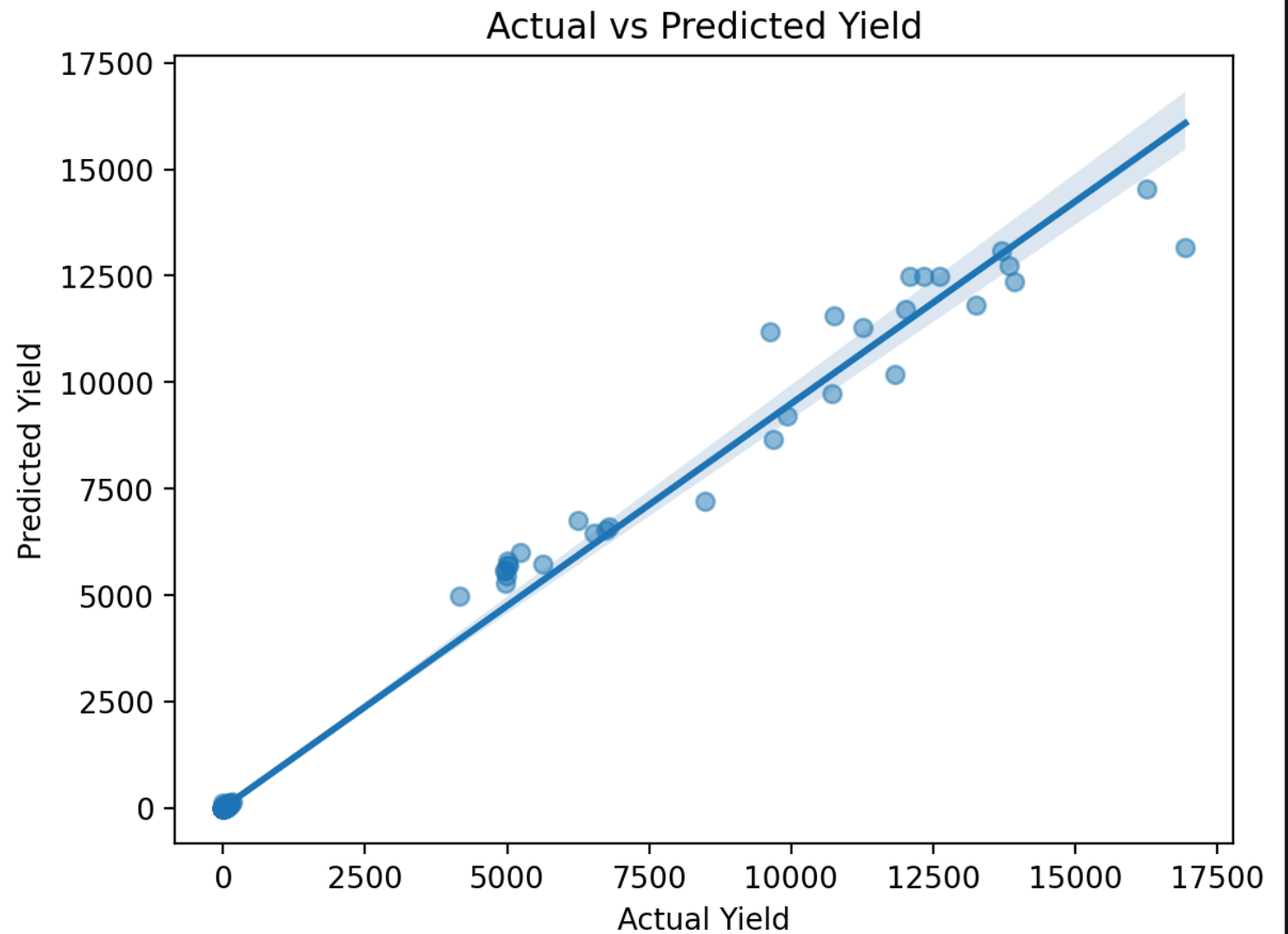
Mean Squared Error (MSE): 9587.5591



Explained Variance Score: 0.9880



## Actual vs Predicted Yield



Adjust the sidebar inputs to see how they impact the prediction!