

Model Report: Stacking Ensemble

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Script: /home/mmann1123/Documents/github/South_Africa_Crop_Comp/deep_learn/src/Classical Machine Learning/Fie

Data Split:

train_count: 3317
test_count: 830
random_seed: 42
split_method: fid-wise

Metrics (test set):

Accuracy: 0.7614
Cohen Kappa: 0.6564
F1 Weighted: 0.7528
F1 Macro: 0.6640

Hyperparameters:

estimators: ['LR (OVR)', 'RF (OVR, n=400)', 'HGB (OVR)', 'XGB (OVR, n=400, depth=6, lr=0.1)']
voting: N/A
final_estimator: LogisticRegression(max_iter=1000)

Per-Class Metrics

Class	Precision	Recall	F1-Score	Support
Barley	0.650	0.602	0.625	133
Canola	0.870	0.870	0.870	100
Lucerne/Medics	0.880	0.943	0.910	388
Small grain grazing	0.458	0.297	0.361	74
Wheat	0.538	0.570	0.554	135

Confusion Matrix

