

Model Comparison Summary

| Model Name | Accuracy | Cohen Kappa | F1 Weighted | F1 Macro |
|------------------------------------|----------|-------------|-------------|----------|
| Transformer Ensemble (Field-Level) | 0.8024 | 0.7197 | 0.7985 | 0.7305 |
| Voting Ensemble | 0.7819 | 0.6824 | 0.7692 | 0.6846 |
| Stacking Ensemble | 0.7614 | 0.6564 | 0.7528 | 0.6640 |
| SMOTE Stacked Ensemble | 0.7494 | 0.6491 | 0.7404 | 0.6840 |
| 3D CNN Patch-Level | 0.7467 | 0.6719 | 0.7377 | 0.6936 |
| Random Forest (Pixel-Level) | 0.6931 | 0.5922 | 0.6828 | 0.6424 |
| XGBoost (Pixel-Level) | 0.6903 | 0.5881 | 0.6802 | 0.6383 |
| LightGBM (Pixel-Level) | 0.6837 | 0.5787 | 0.6725 | 0.6311 |
| Logistic Regression (Pixel-Level) | 0.6761 | 0.5692 | 0.6646 | 0.6200 |

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