NO2 Tahmini - Model Karşılaştırma Tablosu

Model	Train MAE	Test MAE	Train RMSE	Test RMSE	MAPE (Test) (%)	Median AE	Train R²	Test R²	Max Error
XGBoost (Default)	6.48	9.56	8.81	13.31	21.25	6.75	0.8864	0.7392	89.84
XGBoost (Optimize)	6.97	9.55	9.5	13.39	21.18	6.89	0.868	0.736	86.22
Random Forest (Defau	3.91	10.35	5.52	14.48	23.44	7.22	0.9554	0.6914	76.89
Random Forest (Optimi	10.37	12.02	14.08	16.3	28.33	8.94	0.71	0.609	83.07
LightGBM (Default)	9.64	10.82	12.89	14.76	24.47	7.93	0.7571	0.6792	75.78
LightGBM (Optimize)	6.28	8.91	8.54	12.6	19.64	6.22	0.8934	0.7662	88.34
CatBoost (Default)	7.82	9.38	10.58	13.05	20.82	6.88	0.8363	0.7495	88.24
CatBoost (Optimize)	3.97	7.84	5.38	11.24	17.09	5.48	0.9576	0.8141	77.49