

# PM10 Model Karşılaştırması

Model	Train MAE	Test MAE	Train RMSE	Test RMSE	MAPE (%)	Median AE	Train R²	Test R²	Max Error
XGBoost (Default)	4.71	6.71	6.24	8.88	19.31	5.32	0.8257	0.6373	52.06
XGBoost (Optimized)	5.13	6.73	6.91	8.91	19.41	5.3	0.7864	0.6348	51.07
Random Forest (Default)	2.58	6.84	3.55	9.14	19.95	5.23	0.9438	0.6158	52.95
Random Forest (Optimized)	7.82	8.61	10.29	11.18	25.65	7.0	0.5266	0.4254	52.64
LightGBM (Default)	6.65	7.37	8.77	9.62	21.49	5.94	0.6562	0.5743	45.91
LightGBM (Optimized)	5.46	6.66	7.23	8.81	19.26	5.25	0.7661	0.643	49.84
CatBoost (Default)	5.68	6.74	7.49	8.89	19.49	5.34	0.7489	0.6365	50.97
CatBoost (Optimized)	5.21	6.65	6.94	8.85	19.24	5.21	0.7849	0.64	50.53