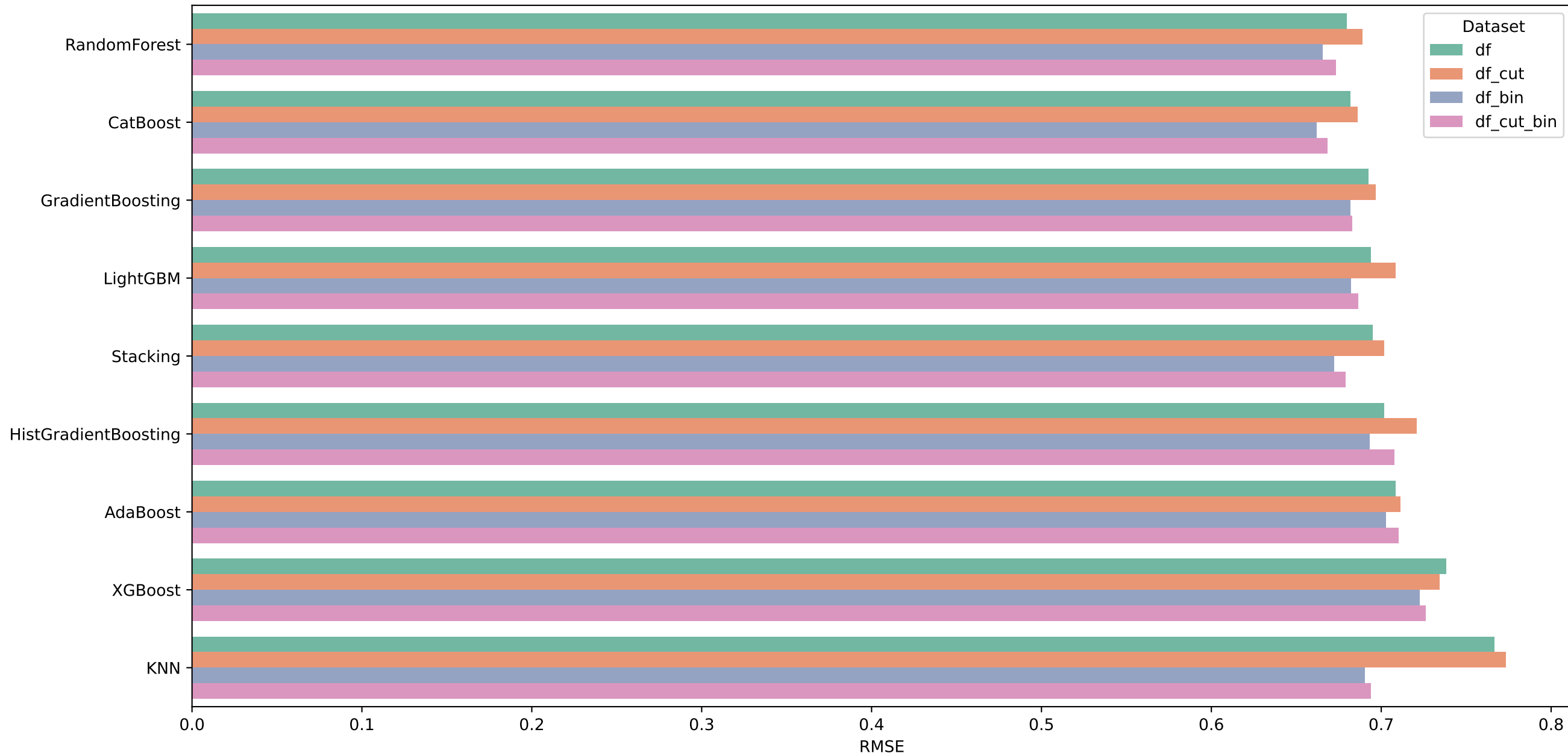
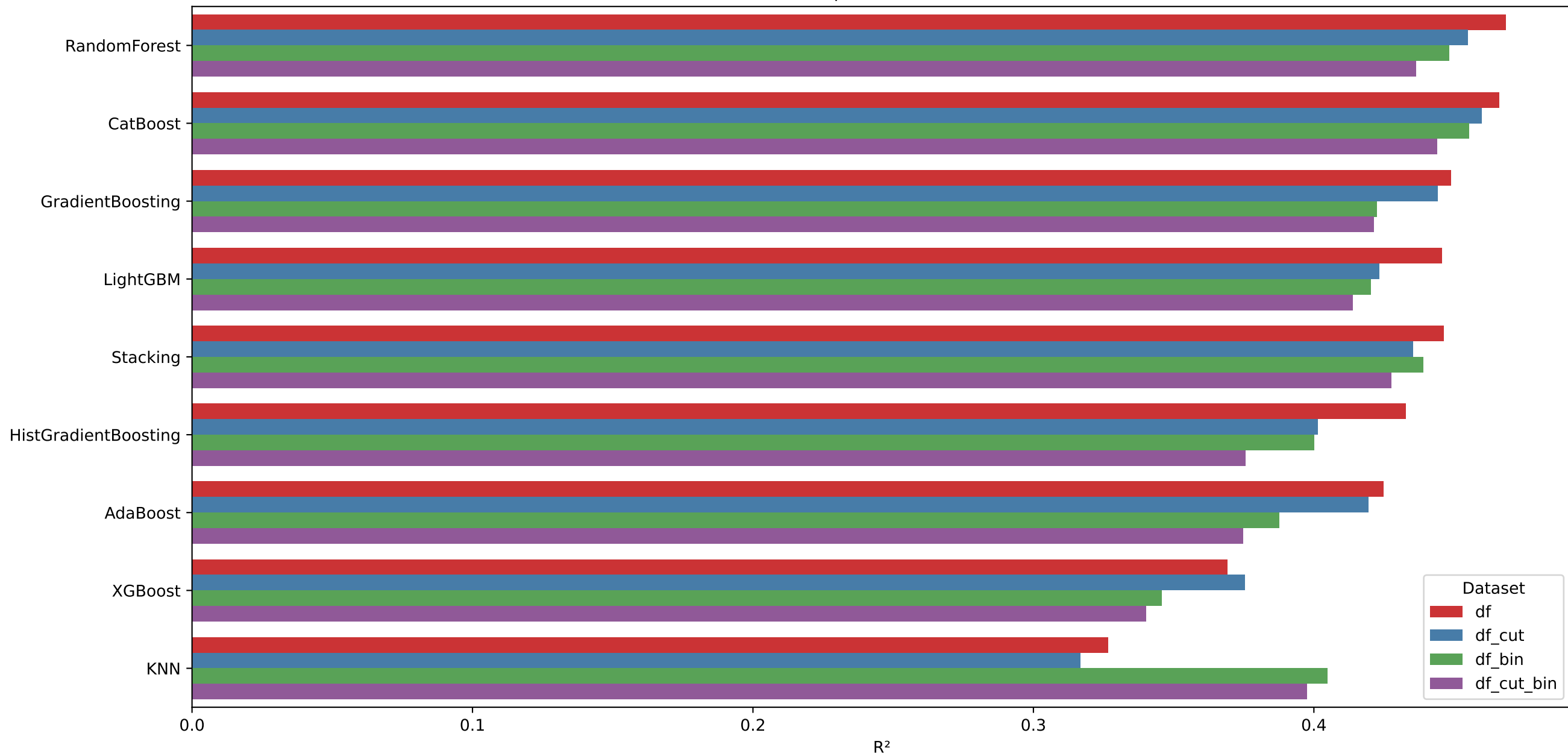


Model RMSE Comparison Across Datasets

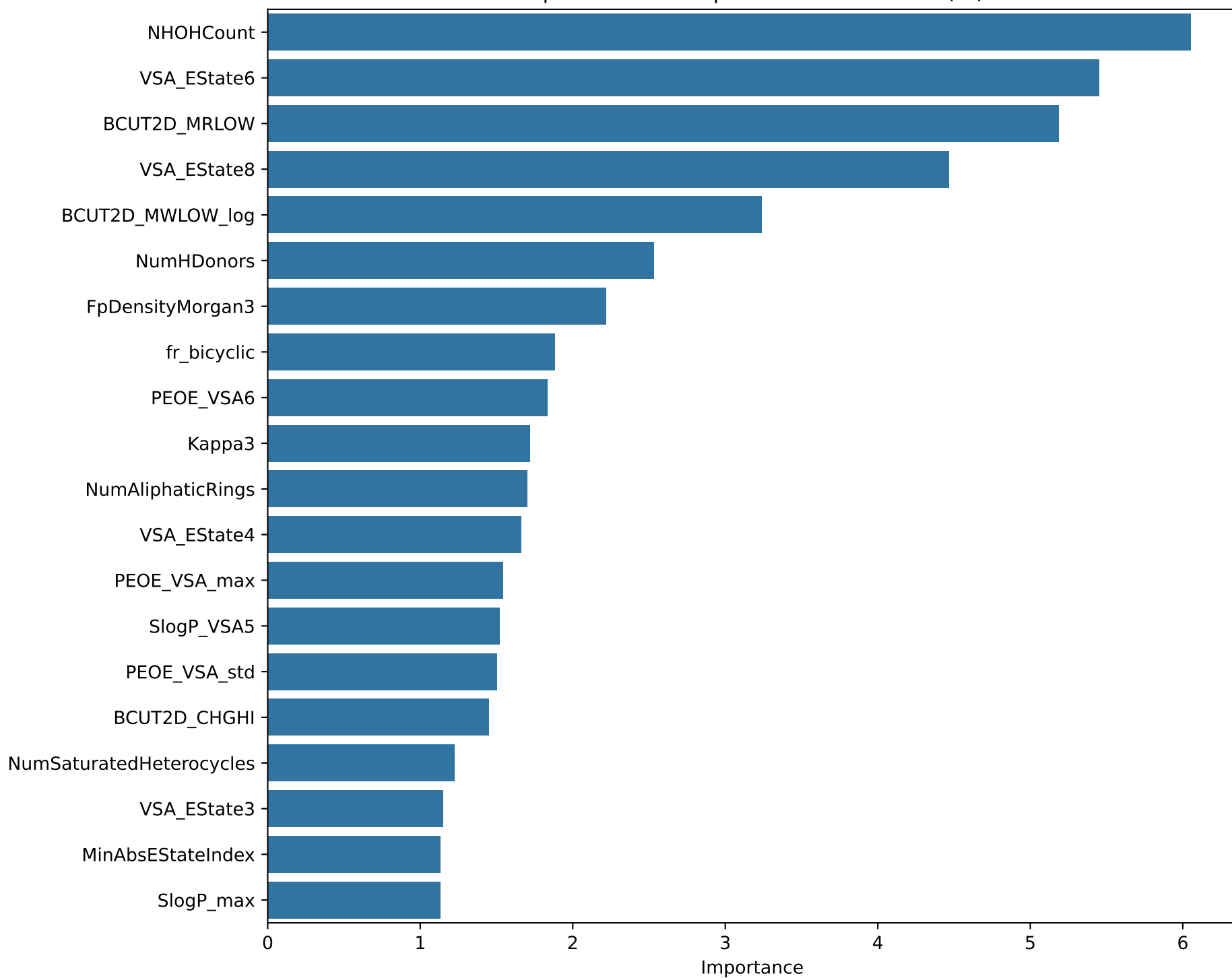


Model R² Comparison Across Datasets

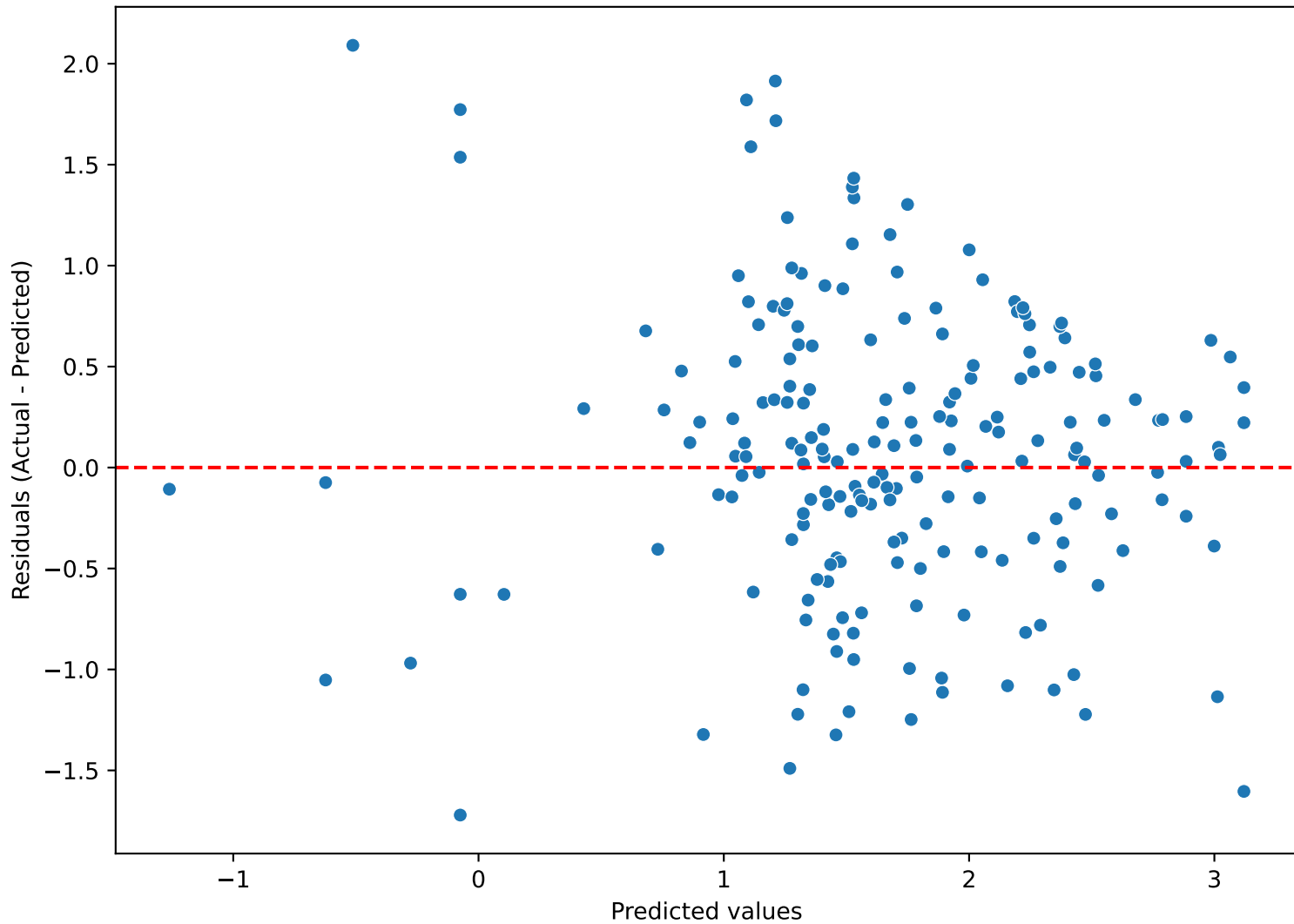


Top 20 Feature Importances - CatBoost (df)

Feature



Residuals plot for best model: RandomForest



Model metrics comparison

	MAE_df	MAE_df_bin	MAE_df_cut	MAE_df_cut_bin	RMSE_df	RMSE_df_bin	RMSE_df_cut	RMSE_df_cut_bin	R²_df	R²_df_bin	R²_df_cut	R²_df_cut_bin
	0.5885	0.5856	0.5855	0.593	0.7085	0.7028	0.7113	0.7101	0.4247	0.3877	0.4194	0.3748
	0.5342	0.5228	0.54	0.5277	0.6819	0.6619	0.686	0.6684	0.4661	0.4552	0.4598	0.444
ting	0.5442	0.5411	0.5509	0.5451	0.6925	0.6819	0.6967	0.6827	0.4488	0.4224	0.4443	0.4213
Boosting	0.5311	0.5258	0.5505	0.5424	0.7018	0.6932	0.721	0.7077	0.4328	0.4001	0.4014	0.3757
	0.5916	0.54	0.5963	0.5405	0.7664	0.6902	0.7735	0.6939	0.3267	0.4048	0.3168	0.3976
	0.5351	0.5292	0.5465	0.5346	0.6938	0.6823	0.7086	0.6866	0.4458	0.4203	0.4233	0.4138
t	0.5283	0.5206	0.533	0.5247	0.6797	0.6657	0.689	0.6732	0.4685	0.4482	0.4549	0.4365
	0.5455	0.5334	0.5506	0.5428	0.6949	0.6722	0.7018	0.6791	0.4462	0.439	0.4354	0.4276
	0.5602	0.5485	0.5548	0.5515	0.7383	0.7225	0.7342	0.7261	0.3692	0.3458	0.3754	0.3401