

# Regression Model Results

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# Low\_cin\_combined Results - Regression Models

Model	Train $R^2$	Test $R^2$	Train MSE	Test MSE
Ridge Regression	0.1527	-2.4809	101.7097	95.7018
Lasso Regression	0.1511	-2.2133	101.9043	88.3462
Random Forest	0.8621	-4.0147	16.5584	137.8725
Support Vector	-0.0392	0.1046	124.7549	24.6178

# High\_cin\_combined Results - Regression Models

Model	Train $R^2$	Test $R^2$	Train MSE	Test MSE
Random Forest	0.8294	-0.3623	18.3394	129.7479
XGBoost Regressor	1.0000	-1.3537	0.0000	224.1666
Ridge Regression	0.7455	-1.0004	27.3616	190.5146





