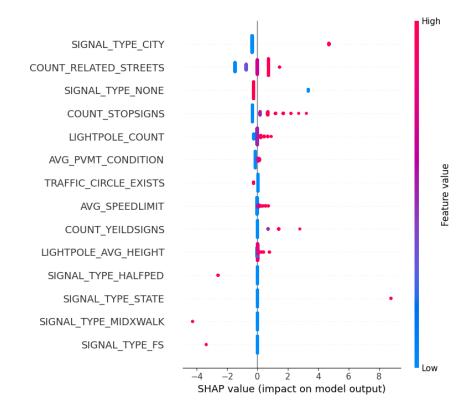
Features vs Collision Rate (collision/re-ordered arterial class) Linear regression

Mean Cross-Validated Mean Squared Error: 9.883375423

Feature Correlations: COUNT RELATED STREETS 0.310981 AVG PVMT CONDITION 0.080860 AVG SPEEDLIMIT 0.164093 TRAFFIC CIRCLE EXISTS -0.027148 COUNT STOPSIGNS 0.111437 COUNT YEILDSIGNS 0.074944 LIGHTPOLE COUNT 0.255695 LIGHTPOLE AVG HEIGHT 0.060115 dtype: float64

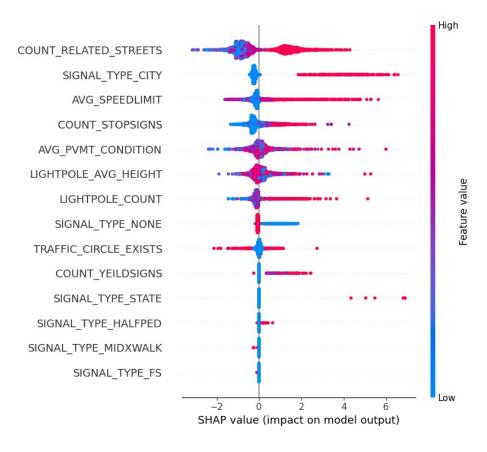
Sorted Features by P-values:

COUNT_RELATED_STREETS: 2.87390391214843e-166
SIGNAL_TYPE_CITY: 7.416147236992526e-100
SIGNAL_TYPE_STATE: 4.012062980958514e-64
SIGNAL_TYPE_NONE: 8.167209588035219e-51
COUNT_STOPSIGNS: 1.3024771471490961e-47
Intercept: 1.9546077758699336e-10
SIGNAL_TYPE_HALFPED: 1.944887698489482e-08
COUNT_YEILDSIGNS: 3.797114385919383e-08
SIGNAL_TYPE_MIDXWALK: 1.4696156009440565e-06
LIGHTPOLE_COUNT: 2.193061224314819e-06
SIGNAL_TYPE_FS: 0.0004976827014693221
TRAFFIC_CIRCLE_EXISTS: 0.0007641790293946246
LIGHTPOLE_AVG_HEIGHT: 0.014482303874964315
AVG_PVMT_CONDITION: 0.01946539453768848
AVG_SPEEDLIMIT: 0.06044640863005986



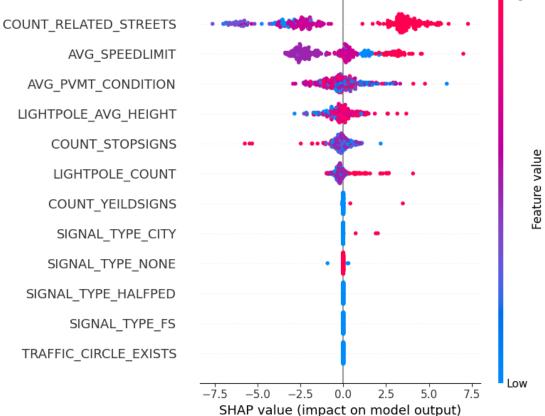
Features vs Collision Rate (collision/re-ordered arterial class) Random Forest

Cross-validation scores: [10.56498874 11.99342862 11.63402024 12.7279217 9.41678166] Mean squared error on test set: 9.771746843696976



Features vs Collision (Collector_Arterial) Random Forest

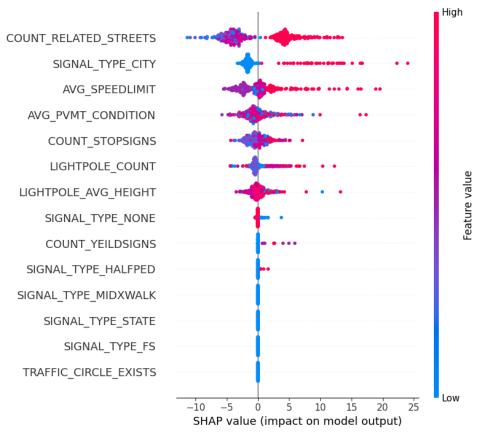
Cross-validation scores: [27.03027737 43.34711032 36.45152755 32.42040656 35.67921892] Mean squared error on test set: 36.62236302914919



High

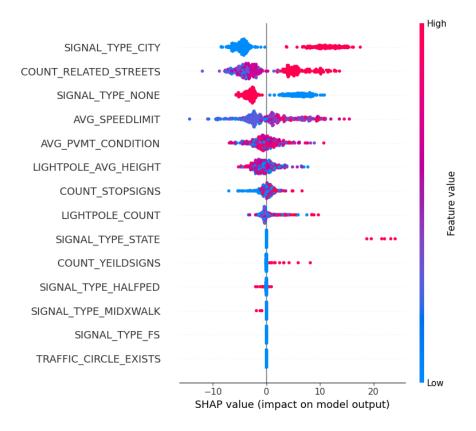
Features vs Collision (Minor_Arterial) Random Forest

Cross-validation scores: [153.95835289 109.01777443 147.56410675 140.36152864 108.83229522] Mean squared error on test set: 227.483640764444



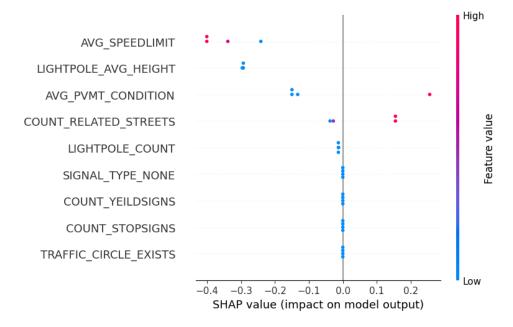
Features vs Collision (Principal_Arterial) Random Forest

Cross-validation scores: [644.29664377 451.21026644 456.88107736 494.90800292 413.73354613] Mean squared error on test set: 519.1158571500497



Features vs Collision (State_Highway) Random Forest

Cross-validation scores: [0.26980023 0.13437306 6.90745222 11.38698091 0.12219086] Mean squared error on test set: 0.9242603702215219



Features vs Collision (Interstate_Freeway) Random Forest

Cross-validation scores: [0.4248105 4.88537611 7.65114528 0.08907943 4.19584804] Mean squared error on test set: 0.5668490219847808

