Main conversions of categoricals have to do with balancing against average age which is basically regular age

Try PCA and adding in with geographic regions

.70 percent of dataset

no balancing of data

no normalizing

ordinal against premium

![Table

Description automatically generated]()

.70 percent of dataset

no balancing of data

no normalizing

ordinal against average age

Graphical user interface, text, application

Description automatically generated

WINNER: AGE BASED ORDINAL

.70 percent of dataset

no balancing of data

YES normalizing - ZSCORE

ordinal against average age

![Table

Description automatically generated]()

WINNER: AGE ORDINAL, NO NORMALIZATION

.70 percent of dataset

no balancing of data

NO normalizing

ordinal against average age

YES BALANCE SMOTE

Text

Description automatically generated

WINNER: AGE ORDINAL, NO NORMALIZATION, NO SMOTE

FINAL RUN – SAME AS ABOVE, OPTIMIZING