## Modeling Car Insurance Claim Outcomes

Goals: Using variables/features to fit logistic models and to identify the best feature

Technologies: Python, Pandas, Numpy, logit (from statsmodels.formula.api), seaborn, matplotlib.pyplot

## Description:

- Read in data from pandas.read\_csv()
- 2. Applied .info() and .head() to check missing values and data type conversion if needed
- 3. Visualized missing data columns using histogram and imputed NA with .mean()
- 4. Converted object data columns into ordinal categorical variables based on dummies code provided by stakeholders (a for loop was created to decrease repetitive work)
- 5. Used .drop() to drop undesired columns during fit process
- 6. Created second loop to fit logit model and used .pred\_table() to get confusion matrix and determined best features and best accuracy
- 7. Delivered result