

Exploratory Questions for Capstone

The purpose of this capstone project is to take in data from Prudential Financial (specifically data about life insurance applicants and their risk category placements based on said data), and to see how machine learning could be used to make predictions on an applicant's risk. Using machine learning we'd be able to make the process of underwriting much quicker and more efficient thereby reducing costs. Some questions to consider however are:

1. What type of model should be used (e.g., classification or regression?)
2. Which specific model would work best for the type of data given (after determining the model type to use)?
3. How accurate can we make the model and how (e.g., which parameters to tune and by how much)?
4. What other parts of underwriting can we automate?
5. Can we also use ML to predict the outcome of a claim assuming it is legitimate?
6. How much cheaper or efficient can using ML be rather than traditional under writing?
7. How much money do life insurance companies spend on administrative costs per year?