Abuabbas Qureshi

Capstone Project 1 Proposal

The project I will be working on will be based off a Lending Club loan application dataset. This project will investigate the risk factors for an applicant. The idea is to determine which of the applicants could be risky clients to grant a loan to. This would be done primarily through exploratory data analysis and touch upon basic machine learning concepts to derive an answer to the main question. While pursuing the question, I am interested in finding out some more supplementary answers to questions such as what kind of applicants who have had delinquencies in the past still prove to be good clients, what kind of applicants who are high earners still prove to be risky clients. I would also be very interested in finding out whether location would be a factor in determining the risk factors in a loan applicant. I am also curious to see whether the 2008 financial crisis has anything to do with the success or failure of a loan application. Some of these queries would be whether a high income applicant suddenly fell on hard times or not, or whether a low income applicant has a better chance of prospering now.