

Executive Summary

When it comes to healthcare, there are numerous contributors to the overall quality of care given to patients. The purpose of this project is to narrow down which factors have the greatest impact on overall quality, compare pricing across different states with differing proportions of insurance types, and determine the accuracy of price estimates of various procedures using Machine Learning. The latter goal has the additional benefit of helping to predict future actual costs based on conventional estimates. This project will use data from the US Census to provide information on the demographics of the population who are on Medicare, Medicaid, or VA benefits, as well as data from the Centers for Medicare and Medicaid (CMS) on various hospital performance metrics and procedure prices and estimates.