

Patient records were retrieved from a centralized database of patients admitted to one of 9 hospitals affiliated with Prisma Health in upstate South Carolina between January 2014 and December 2016. A total of 397,846 individual patients with at least one day of hospital stay were identified. The following 14 variables have been selected for the study: (1) Age at the time of Visit , (2) Admission Source, (3) Financial Class Group (Insurance Type), (4) Hospital, (5) Length of Hospital Stay, (6) Sex, (7) Marital Status, (8) Race, (9) Number of Diagnoses, (10) Number of Procedures, (11) Number of Hospital Patients at the Start of the Visit, (12) Number of Hospital Patients at the and End of the Visit, (13) Max Occupancy of Hospital at the Start of the Visit, (14) Max Occupancy of Hospital at the End of the Visit

Building the Best Model