One area of predictive analytics that I find interesting is in the healthcare industry. There are many ways that predictive analytics can be used in this field. It can be used to predict future areas that disease or illness will appear so the data can be used to predict illness and prevent epidemics. It can be used to help diagnose or predict illness in individuals. Predictive analytics can be used to find and prevent fraud in the healthcare systems. There are many ways that predictive analytics can be used in the healthcare system to save lives and money.

Predictive analytics have played a major role in the Covid 19 pandemic. It has been used to help predict when trends will happen in communities worldwide. Predicting when the outbreak will peak helps the communities prepare for high hospital admissions and community spread during the pandemic The data is used to calculate how many people will be using the local healthcare resources. This enables the communities and hospitals to prepare for surges of Covid 19 with more reserves committed to the hospitals during an expected surge. The data collected has helped our governments make decisions about how to set health policies on a local and regional level. Using predictive analytics is a powerful instrument when trying to forecast for when and where a disease like Covid 19 might spread.

On and individual level predictive analytics can be used to help diagnose disease in individual people. It can be used in a variety of different ways to help with clinical case. It can predict what treatment plans have the best chance of being successful. It can be used to help a doctor see what diagnosis might be the most likely. Doctors can use the predictive information as a part of the diagnostic process. The information can be used to see what the probability of the patient relapsing or having a reinfection. There are many ways that predictive analytics can be integrated into an individual’s health care.

Predictive Analytics can be used in to help prevent health care fraud and to save hospitals and health care providers money. Every year 68 billion dollars is spent in the US on healthcare. (Hajjar) Analytics can see billing patterns from a variety of different insurance companies and bring that data together to create a pattern that might not otherwise be noticed. Seeing these patters might help prevent billing fraud. It can also decrease the cost of healthcare. Analytic data can be used to manage and predict supply chain costs and create staff schedules that will prevent a hospital from spending money on staff or supplies that might not be needed. I am currently working on a project that will create predictive schedules for the various departments in a hospital. It will be using past admissions data to help predict when staff is need and in which department. This could potentially save a hospital millions of dollars in staff salaries. It could also prevent understaffing that can lead to errors and adverse healthcare outcomes.

Hajjar, A. (2022). Retrieved 19 May 2022, from https://research.aimultiple.com/healthcare-analytics-examples/

Kent, J. (2022). Retrieved 18 May 2022, from https://healthitanalytics.com/news/3-ways-healthcare-is-using-predictive-analytics-to-combat-covid-19 Kent, J. (2022). 4 Emerging Strategies to Advance Big Data Analytics in

Healthcare. Retrieved 19 May 2022, from https://healthitanalytics.com/news/4-emerging-strategies-to-advance-big-data-analytics-in-healthcare