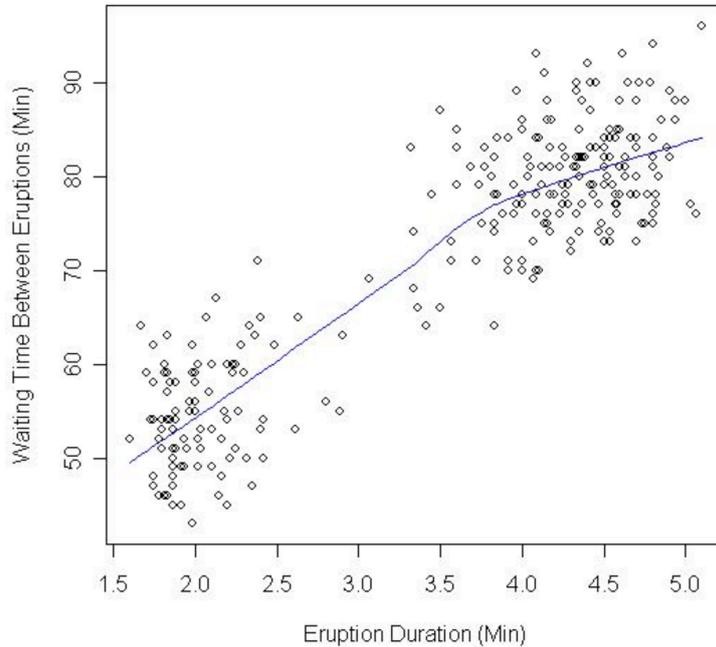


Old Faithful

Eruption of Old Faithful in 1948

Old Faithful Eruptions



Old Faithful is a cone geyser located in Yellowstone National Park in Wyoming, United States. Its name stems from the supposed regularity of its eruptions. It is a highly predictable geothermal feature, and has erupted every 44 minutes to two hours since 2000. Between 1983 and 1994, four probes containing temperature and pressure measurement devices and video equipment were lowered into Old Faithful. The probes were lowered as deep as 72 feet (22 m). Temperature measurements of the water at this depth were 244 °F (118 °C), the same as was measured in 1942.

The data set comprises 272 observations, each of which represents a single eruption and contains two variables corresponding to the duration in minutes of the eruption, and the time until the next eruption, also in minutes. Figure shows a plot of the time to the next eruption versus the duration of the eruptions. It can be seen that the time to the next eruption varies considerably, although knowledge of the duration of the current eruption allows it to be predicted more accurately.

The information is taken from https://en.wikipedia.org/wiki/Old_Faithful and Bishop C.P. Pattern recognition and machine learning, 2006. Pp. 677-683.