Analysis of the Accident Dataset

We have the dataset of the road accidents in Great Britain in 2010. There were 32 variables collected. We analyzed if there is evidence of a difference in the odds of fatality among the various hours.

From the hypothesis test the p-value=2.2e-16. Therefore, we concluded that the there are differences in the odds of fatality among the various hours.

Figure1 shows the odds of fatality and the 95% confidence interval by the hours. And we can see that the high odds of fatality is from 0 to 5 o'clock (the highest on 2 o'clock). And the low odds of fatality is from 8 to 18 o'clock (the lowest on 8 o'clock). It is because the accidents happened on midnight were difficult to be discovered and sent to the hospital. Thus, the higher odds of fatality happens at nidnight.

Figure1:   *The odds of fatality and the 95% CI by the hour*