Week 2 - AYU - Pod

Contents

Questions 1

Questions

Adding code chunks (Ctrl + Alt + I) below of each questions to answer the questions.

1. Run the all codes in the Section 1 and show all the results
2. We will use the Wisconsin Hospital Data again for this question.

- Train a GLM with the response being the total charge, `TOTCHG`. The response distribution is Gaussian (Normal) and the link function is `identity`. Give the model summary. Make a prediction with the model.
- Train a GLM with the response being the total charge, `TOTCHG`. The response distribution is Gaussian (Normal) and the link function is `log`. Give the model summary. Make a prediction with the model.

3. Create a binary variable from `TOTCHG` and train a logistic regression with this newly created variable being the response. Give the model summary. Make a prediction with the model. Calculate the training accuracy of the model.
4. Find a dataset that has a counting variable to train a Poisson regression on. Train a Poisson regression with the data. Give the model summary. Make a prediction with the model. Report the p-value of the Goodness of fit test for the model.