

Writing Research Questions for the COMP824 Project

In the COMP824 project you have to write 3 research questions/objectives that you will investigate using your chosen dataset.

In the initial proposal, you don't need to mention the type of analysis you will perform, however it is worth thinking about this, even at this early stage. In the final report, you need to analyse each question/objective using summary statistics and at least one graph. In addition, for at least one question/objective, you will need to use a statistical model/method.

Example Research Questions

1. How many cars are in the dataset?

This is not a suitable question as the answer is a single number. There will be no opportunity to compute summary statistics or a graph.

2. What is the average fuel efficiency of cars in the dataset?

This is not a suitable question as the answer is a single number. There will be no opportunity to compute summary statistics or a graph.

3. Is fuel efficiency related to engine size?

This is a suitable question and contains sufficient detail for the initial proposal. For the full proposal variable names and types of analysis should also be provided.

4. Is fuel efficiency related to engine size, and is this influenced by vehicle type?

This is a suitable question and contains sufficient detail for the initial proposal. For the full proposal variable names and types of analysis should also be provided. The inclusion of vehicle type in this question will provide greater opportunity to showcase the tools/techniques you have learnt in this course, compared with the previous question.