

# DAT565/DIT407 Assignment 4

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This paper is addressing the assignment 3 study queries within the *Introduction to Data Science & AI* course, DIT407 at the University of Gothenburg and DAT565 at Chalmers. The main source of information for this project is derived from the lectures and Skiena [1]. Assignment 4 is about correlation and linear regression.

## **Problem 1: Splitting the data**

## **Problem 2: Single-variable model**

## **Problem 3: Non-linear relationship**

## **Problem 4: Multiple linear regression**

## **References**

- [1] Steven S Skiena. *The Data Science Design Manual*. Retrieved 2024-01-20. 2024. URL: <https://ebookcentral.proquest.com/lib/gu/detail.action?docID=6312797>.

## **Appendix: Source Code**