

# DAT565/DIT407 Assignment 5

Ola Bratt  
ola.bratt@gmail.com

Patrick Attimont  
patrickattimont@gmail.com

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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 [2]. Assignment 5 is about distance and network methods.

**Problem 1: Preprocessing the dataset**

**Problem 2: Determining the appropriate number of clusters**

**Problem 3: Visualizing the classes**

**Problem 4: Evaluating clustering**

**Problem 5: Agglomerative clustering**

## References

- [1] Human development reports. *Human Development Index (HDI)*. Retrieved 2024-02-14. 2023. URL: <https://hdr.undp.org/data-center/human-development-index#/indicies/HDI>.
- [2] 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