

High Dimensional Statistics IV MATH4287 - Mini Project Report

qvns53

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Introduction

Objectives & Questions

Literature Review

Methods

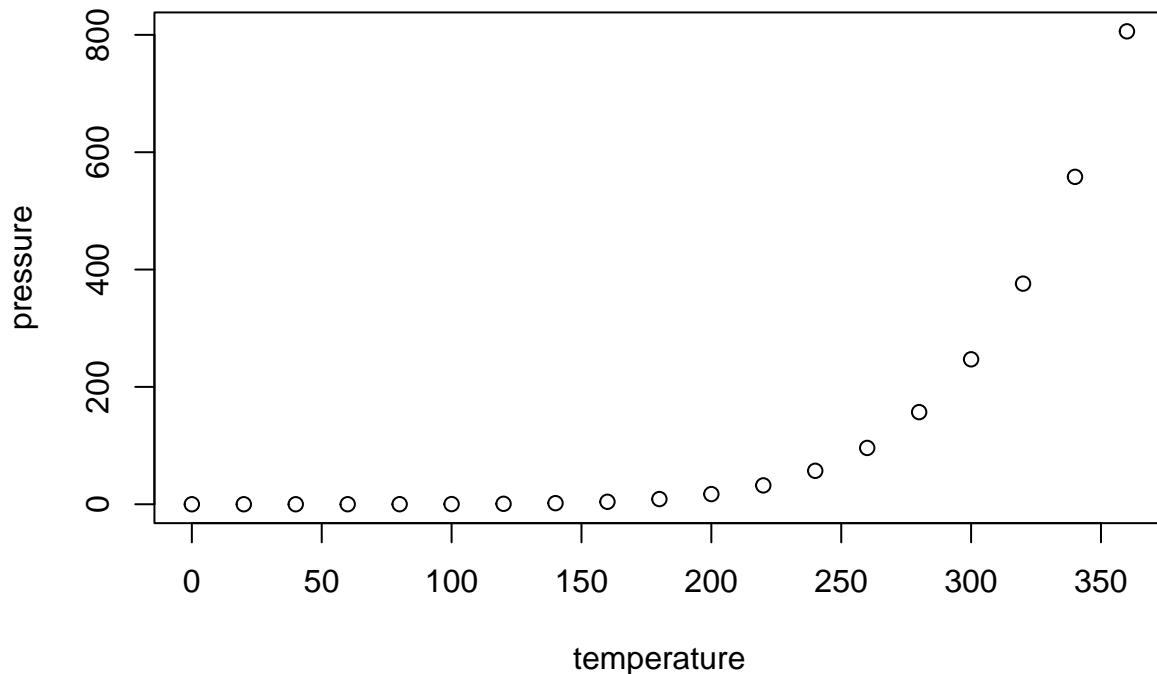
Results

Conclusion

Yeung and Ruzzo (2001) Hubert and Arabie (1985) Mukherjee and Zhang (2022) Ding and He (2004) Rand (1971) Chang (1983)

```
summary(cars)
```

```
##      speed         dist
##  Min.   : 4.0   Min.   : 2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean   :15.4   Mean   : 42.98
##  3rd Qu.:19.0   3rd Qu.: 56.00
##  Max.   :25.0   Max.   :120.00
```



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- Ding, Chris, and Xiaofeng He. 2004. “ K -Means Clustering via Principal Component Analysis.” In *Twenty-First International Conference on Machine Learning - ICML '04*, 29. Banff, Alberta, Canada: ACM Press. <https://doi.org/10.1145/1015330.1015408>.
- Hubert, Lawrence, and Phipps Arabie. 1985. “Comparing Partitions.” *Journal of Classification* 2 (1): 193–218. <https://doi.org/10.1007/BF01908075>.
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- Yeung, Ka Yee, and Walter L Ruzzo. 2001. “An Empirical Study on Principal Component Analysis for Clustering Gene Expression Data.”