

Summer 2020
Prof. Thomas Slawig
Dr. Joscha Reimer

Kiel University
Department of Computer Science

Optimization and Data Science

Exam exercise 1

Show how the singular value decomposition can be used to compress data, i.e., to reduce the size of a data matrix $X \in \mathbb{R}^{m \times n}$ (with $m > n$) in a most appropriate fashion.