

# Homework #01

SMDS-2023-2024

**STATSTICAL METHODS IN DATA SCIENCE II A.Y. 2022-2023**

M.Sc. in Data Science

deadline: April 26th, 2024

$$\begin{aligned} Cov(X_i, X_j) &= E_{\pi}[\theta^2] - E_{\pi}[\theta]E_{\pi}[\theta] \\ &= E_{\pi}[\theta^2] - E_{\pi}[\theta]^2 \\ &= Var_{\pi}(\theta) \end{aligned}$$

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