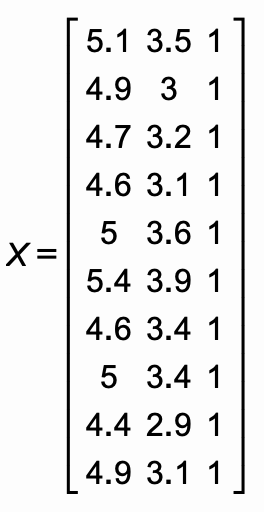
机器学习作业

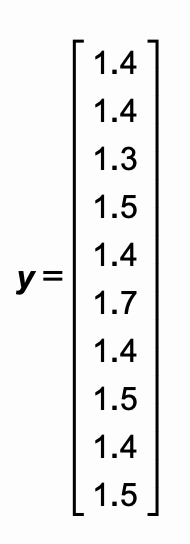
人工智能1903班 王萱 20195235

第一题

样本特征矩阵



样本标签向量



自相关矩阵Rx

互相关向量

线性回归模型的封闭解w

  第二题

 样本特征矩阵

[[5.1 3.5 1. ]

[5.1 3.5 1. ]

[4.9 3. 1. ]

[4.7 3.2 1. ]

[4.6 3.1 1. ]

[5. 3.6 1. ]

[5.4 3.9 1. ]

[4.6 3.4 1. ]

[5. 3.4 1. ]

[4.4 2.9 1. ]

[4.9 3.1 1. ]

[5.4 3.7 1. ]

[4.8 3.4 1. ]

[4.8 3. 1. ]

[4.3 3. 1. ]

[5.8 4. 1. ]

[5.7 4.4 1. ]

[5.4 3.9 1. ]

[5.1 3.5 1. ]

[5.7 3.8 1. ]

[5.1 3.8 1. ]

[5.4 3.4 1. ]

[5.1 3.7 1. ]

[4.6 3.6 1. ]

[5.1 3.3 1. ]

[4.8 3.4 1. ]

[5. 3. 1. ]

[5. 3.4 1. ]

[5.2 3.5 1. ]

[5.2 3.4 1. ]

[4.7 3.2 1. ]

[4.8 3.1 1. ]

[5.4 3.4 1. ]

[5.2 4.1 1. ]

[5.5 4.2 1. ]

[4.9 3.1 1. ]

[5. 3.2 1. ]

[5.5 3.5 1. ]

[4.9 3.6 1. ]

[4.4 3. 1. ]

[5.1 3.4 1. ]

[5. 3.5 1. ]

[4.5 2.3 1. ]

[4.4 3.2 1. ]

[5. 3.5 1. ]

[5.1 3.8 1. ]

[4.8 3. 1. ]

[5.1 3.8 1. ]

[4.6 3.2 1. ]

[5.3 3.7 1. ]

[5. 3.3 1. ]]

样本标签向量

[[1.4]

[1.4]

[1.4]

[1.3]

[1.5]

[1.4]

[1.7]

[1.4]

[1.5]

[1.4]

[1.5]

[1.5]

[1.6]

[1.4]

[1.1]

[1.2]

[1.5]

[1.3]

[1.4]

[1.7]

[1.5]

[1.7]

[1.5]

[1. ]

[1.7]

[1.9]

[1.6]

[1.6]

[1.5]

[1.4]

[1.6]

[1.6]

[1.5]

[1.5]

[1.4]

[1.5]

[1.2]

[1.3]

[1.4]

[1.3]

[1.5]

[1.3]

[1.3]

[1.3]

[1.6]

[1.9]

[1.4]

[1.6]

[1.4]

[1.5]

[1.4]]

自相关矩阵

[[1285.1 880.74 255.4 ]

[ 880.74 606.85 174.9 ]

[ 255.4 174.9 51. ]]

互相关向量

[[373.88]

[256.06]

[ 74.5 ]]

最小二乘解

[[ 0.14732246]

[-0.02105866]

[ 0.79523538]]