二〇二三~二〇二四学年度第二学期

《机器学习》期中测试编程题

Suppose you have an array containing information about n individuals. Each person is represented separately by a string (their name) and a number (their position on the number axis). Each person has 5 friends, i.e., the 5 people whose numbers are closest to his own. Write an algorithm that can find each person's 5 friends.

Requirements:

1. **Any AI-assisted tools are forbidden！**
2. **Time: 10:20 – 11:40 am**
3. Submit your code file, i.e., a jupyter notebook file.
4. Submit a short report (1-2 pages) to indicate the method you use to solve the problem, outline your problem-solving process, and please give visualization results. The report document template is given.
5. Filename example: midterm \_2022007\_张三。Please submit your files to the Blackboard platform.