Assignment 4

1. A manufacturer plans its operations to ensure 95% of its customers receive their orders within a specific time frame. The delivery time varies depending on the location. What is the minimum delivery time that must be met to ensure that 95% of customers receive their orders within this time frame?

2. A company has a dataset of customer sales over the past year. It wants to predict the total revenue for the next year. Which machine learning technique would you recommend for this task?

3. A researcher is studying the impact of a new drug on blood pressure. She has data on blood pressure measurements of patients before and after taking the drug. What statistical test should she use to determine if there is a significant difference in blood pressure levels?

4. A social media platform is analyzing user activity data to identify trends in user engagement. What could be some potential insights they might derive from this analysis?

5. A retail company is trying to understand customer behavior in its online store. They want to know how often customers return items and why. What data analysis techniques would be most useful for this purpose?

6. A city is planning to construct a new highway. They want to ensure that the new road will reduce traffic congestion in the area. What factors should they consider when planning this project?

7. A software company is analyzing user feedback to improve its product. They want to identify the most common issues and their causes. Which data analysis method would be best suited for this task?

8. A health insurance company is comparing the costs of different insurance plans to determine which plan offers the best value for customers. What criteria should they use to evaluate the plans?

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