AIN427 Int. to Data Mining Midterm Exam

- Takehome
- Due Date: December 4th send a PDF file huaincehw@gmail.com with the exact subject **AIN427MIIDTERM**
- Do your own work, AI generated text check will be done for all files

Question 1: Data Preprocessing (40 points)

a. Discuss the importance of data preprocessing in the context of data mining.

b. Explain three common techniques used in data preprocessing, providing a brief example for each.

Question 2: Association Rule Mining (60 points)

a. Explain the concept of association rule mining and its application in real-world scenarios.

b. Discuss the ECLAT algorithm. How does it work, and what are its key steps?

c. Discuss the Direct Hashing and Pruning (DHP) algorithm. How does it work, and what are its key steps?

d. Provide an example of a dataset where association rule mining could be beneficial. Describe the potential rules that might be discovered.