## **Midterm Exam**

## **GITA317: Python Machine Learning II**

정보통신대학원 Oct. 20, 2022

**Notice:** Answer should be well structured and clear, easy to understand. Answers should be given in complete sentences

sentences.	
Name:	Student Number:
100 points total	
Describe a good way of determ	ng a good explanatory variable for a simple linear regression model. nining it.
Answer:	

# Problem 2: 30 points

Describe how the decision tree regression works.

**Answer:** 

## Problem 3: 20 points

Describe how you can evaluate the results of the k-means clustering. In your answer, some measures may be used. If this is the case, you should explain the measure used clearly.

**Answer:** 

## Problem 4: 30 points, Silhouette coefficient

Describe the situation where the silhouette coefficient of an example is rather large.

**Answer:**