

# MIDTERM EXAM

## Case Study

You are a real estate businessman. You have several units of houses, land, and shophouses spread across Malang City, and property acquisition plans are seen as future prospects. As a businessman your goal is to get good sales, and good profits.

To achieve that goal, you have several strategies that are divided into the following categories:

1. Determine the best selling price for each unit
2. Determine the target marketing on social media
3. Choose the right location for the property unit to be acquired
4. Determine the specifications for the house
5. Choose the priority of the unit owned, between a house, land, or shophouse

Your job is to choose one of the five strategies above!

## Question

1. From one of the strategies you choose, define a clear problem with machine learning as the solution approach **(10points)**
2. Develop a data ingestion strategy, determine what data will be processed, where it will come from **(10 points)**
3. Make a sample data, at least 20 items **(20 points)**
4. What kind of machine learning model/method will be used? **(10 points)**  
Explain whether the method is supervised or unsupervised? **(10 points)**  
Explain why do you choose this model? **(20 points)**  
Explain the machine learning method that will be used! **(20 points)**