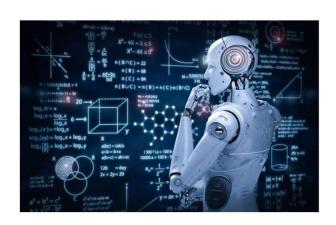
Machine Learning-(COMP6745)

Individual Assigment-2





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Assignment-2 Instruction

- Assignment in Jupyter Notebook (file *.ipynb)
- 2. In Jupyter Notebook Write your Identity (NIM, Name, Class and Asignment Number) in Markdown format.
- 3. Print file *.ipynb to pdf then send email to <u>Johannes.simatupang@binus.ac.id</u> (DueDate Mar 24, 2024 23:59 WIB)
- 4. Weighted value of assignment: 2%

Assignment-2

No 1.

Fitting & Predict given data of Home Price using Multiple Linear Regression without Scikit-Learn Library

	size	bedroom	price
0	2104	3	399900
1	1600	3	329900
2	2400	3	369000
3	1416	2	232000
4	3000	4	539900
	d	ataset	

Assignment-2. No 1

Multiple Linear Regression without Scikit-Learn Library

- Normalize or standardize numerical features that you deem necessary, and explain the reason for your choice of method.
- Fitting the MLR model to the training set
- Predicting the training & test set result
- Evaluation Metrics : RMSE, MAE and R2

Assignment-2. No 2

Based on GSLC 9-10

- How to avoid the underfitting in Model Supervise Learning?
- Explain two types of regularization techniques!
- Calculate output k-fold Cross-Validation

```
for dataset = [[10], [9], [8], [7], [6], [5], [4], [3], [2], [1]]
```

Good Luck