

Graduate Certificate in Artificial Intelligence with Machine Learning  
AIGC 5002 - Machine Learning and Deep Learning  
Fall 2023

Lab 9:  
DTs and ML Hyperparameters  
November 15, 2023

**Submission guidelines:**

- For this lab, you will need to submit 1 PDF file by the end of lab time.
- After you complete all the exercises, convert your Jupyter Notebook (.ipynb) to PDF. Name the PDF as follows: firstname\_lastname\_LAB9.pdf
- Go to the course Blackboard → Labs folder → Lab 9 and submit the pdf.

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**After following the lab tutorial, find a dataset in a field of your choice that is suitable for regression. Then, design a DT model, evaluate the model. Design a second DT model using the same data split. However, now, choose 3 hyperparameters and change them. Give a brief explanation about each hyperparameter you chose and compare both models.**

Enjoy!