

Graduate Certificate in Artificial Intelligence with Machine Learning  
AIGC 5503 – AI For Bus. Decision Making

## Lab 4 & 5: Case Study

### Submission guidelines:

- For this lab, you will need to submit 2 PDF file.
  - Name the PDF as follows:
    - firstname\_lastname\_LAB4.pdf
    - firstname\_lastname\_LAB5.pdf
  - Go to the course Blackboard → Labs folder → Lab Exercise 4 & 5 and submit the pdf files.
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### Lab goals:

- Analyze real-world case study .
- Apply Time Series Forecasting
- Apply RFM Analysis

### Part 1: Case Study

- Analyze the EnergyProduction.csv dataset by:
  - Apply Time-Series Forecasting
- Complete the tasks and steps provided in Lab4\_CaseStudy.ipynb

### Part 2: Case Study

- Analyze the OnlineRetail.csv dataset by:
  - Apply RFM Analysis
- Complete the TO-DO tasks and steps provided in Lab5\_CaseStudy.ipynb

### Evaluation & Deliverables:

- **Part 1 = Lab 2 – 100%**
- **Part 2 = Lab 3 – 100%**

- **Deliverables:** Provide a copy of **your code** and the generated **outputs** from Parts 1 and 2 in separate PDF files.

Enjoy!

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