

# **Machine Learning and Pattern Recognition**

## **Lab 4: Spring Semester 2026**

- You need to code in the given jupyter notebook only.
- Download this notebook and import in your jupyter lab.
- You need to write a partial code for step 0 to step 8 mentioned with prefix ##
- Fill the blanks where it is instructed in comments.
- Leave other codes, structure as it is.
- Follow all the instructions commented in the cells.
- Answer the questions given at the end of the Jupyter notebook within your report.
- Ensure you've completed the code tasks for each section in the Jupyter notebook. Upload this jupyter notebook after completion with your partial code and the report in one file in PDF format. Your file name should be yourname\_lab4.pdf.
- Also upload the resulting image showing all the selected points and boundary line between them after LDA analysis.
- Your submission should contain the pdf file and the output plot. Upload it on the LMS before the due time.