

02460 Advanced Machine Learning

Project execution

- Logbook
- Midterm evaluation
- Report
- Poster

Logbook objective

- Serves as a tool for you to organize the project
- Is a way to collecting information related to the

LEARNING OBJECTIVES

- Presentation of methods and results at meetings with project supervisor and fellow students.
- Plan and carry out the course of the project in collaboration with the project supervisor.
- Organize and coordinate the work in the project group.

Logbook elements

Overall Project Goals

Define own learning objectives for the project

Describe

Carry out a well-founded delimitation of the project and formulate specific hypotheses and aims

Describe

Project Meetings

Week 1: dd.mm.yy-dd.mm.yy

- *Questions*
- *Reading, who and what*
- *Implementation, who and what*
- *Results, who and what*
- *Decisions, who and what, what do you don alone, what do you do together*

Midterm evaluation

Report 4 pages + 1 page ref in IEEE style

LEARNING OBJECTIVE

Structure and write a final short technical report including problem formulation, description of methods, experiments, evaluation and conclusion

Report structure as a scientific paper

Title and authors' names	<ul style="list-style-type: none">• Descriptive words that you would associate strongly with the content of your paper
Abstract <i>What did I do in a nutshell?</i>	<ul style="list-style-type: none">• Questions, methods, major findings and quantitative results, interpretation and conclusion. No abbreviation and references!
Introduction <i>What is the problem?</i>	<ul style="list-style-type: none">• Context, literature review and summary of scope of problem and limitations• Purpose and rationale of the work including hypothesis, questions, problems investigated
Materials and methods <i>How did I solve the problem?</i>	<ul style="list-style-type: none">• Experiments• Collection of data• Description of methods to a level that others can reproduce the results
Results <i>What did I find out?</i>	<ul style="list-style-type: none">• Objective presentation of key results, <i>without</i> interpretation (text and tables and figures)• Important negative results should also be reported
Discussion <i>What does it mean?</i>	<ul style="list-style-type: none">• Interpret (subjective) results in light of state of the art about the subject of the investigation• Explain new understanding in light of results
Conclusion Objective, linked to hypothesis	<ul style="list-style-type: none">• Quantitative and specific linked to problems and results
Acknowledgment	<ul style="list-style-type: none">• Thank you to people or organizations which made the work possible
References	<ul style="list-style-type: none">• Complete set of references used
Appendix	<ul style="list-style-type: none">• In depth explanation or derivations• Additional material to make the work reproducible

Ref <http://abacus.bates.edu/~ganderso/biology/resources/writing/HTWsections.html>

Online Poster

LEARNING OBJECTIVE

Organize and present project results at the final online poster presentation

- Same structure as report
- Fewer details
- Large text
- Nice illustrations – a figure is worth 1000 words!