

# RESEARCH INTERNSHIP DEEP LEARNING: SCIENTIFIC TEST REPORT

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## Objective

The objective of this assignment is to explore a specific application of Deep Learning by writing a concise scientific report. This report is not graded.

## Assignment Details

- **Topic Selection:** Choose one of the following topics related to Deep Learning:
  - Linear Neural Networks
  - Multilayer perceptrons
  - Convolutional Neural Networks
  - Recurrent Neural Networks
- **Report Length:** The report should be 2 pages long (excluding abstract, title page, table of contents, images and bibliography). (double-spaced, 12-point font).
- **Sections to Include:**
  - **Title:** A concise and informative title for your report.
  - **Introduction:** Briefly introduce your chosen topic and its relevance to Deep Learning.
  - **Methods/Approach:** Describe the methods or technologies employed in the application of Deep Learning within your topic area.
  - **Results:** Present key findings or outcomes of the application. Include any relevant data, visuals, or examples to support your discussion.
  - **Discussion:** Analyze the implications of your findings and discuss future directions or potential developments in this area.
  - **Conclusion:** Summarize the main points of your report and restate the importance of the application of Deep Learning.
  - **References:** Include a list of references in a standard citation format (e.g., APA, MLA).

## Submission Guidelines

- **Due Date:** 24.05.2025
- **Format:** Typed, double-spaced, 12-point font, standard margins.
- **Submission:** Submit your report via Cloud: <https://cloud.uni-koblenz.de/s/qwmLdK2f7XF4KQW>