Semester Project Report

Neural Networks (AI)

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Abstract

A concise (≈10 lines) summary of the task, dataset, methods, and main results.

Contents

1 Introduction

State your project task (given or self-chosen). Briefly describe dataset(s) and objectives. Keep it short, direct, and specific to your project.

2 Data

- Source of dataset
- Size and type (tabular, images, time series. . .)
- Key characteristics (with plots or descriptive stats)
- Any preprocessing or cleaning

3 Methods and Experiments

3.1 Pipeline Overview

Diagram or list of your full pipeline: preprocessing, model, optimization.

3.2 Model Description

- Architecture (MLP, CNN, etc.), with math or pseudocode if needed. - Loss function, optimizer, regularization.

3.3 Training Procedure

- Cross-validation setup, train/test split. - Hyperparameters and how you chose them.

4 Results

- Performance metrics (accuracy, MSE, etc.)
- Learning curves or confusion matrices
- Compare with baseline(s)

5 Discussion

- What worked well and why
- What didn't work, limitations
- Possible improvements or future work

6 Conclusion

Wrap up: summarize objectives, approach, key findings, and lessons learned.

References

A Use of AI Tools

Briefly document how (if at all) ChatGPT or other LLMs were used in writing or coding.

B Additional Figures / Materials

Include extra plots, tables, or examples here if needed.