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Federated Learning

Jose Maria Rico Leal

CCT College Dublin

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Federated Learning

Jose Maria Rico Leal

A Thesis Submitted in Partial Fulfilment of the requirements for the

Degree of

Master of Science in Data Analytics



September 2024 Supervisor: Sam Weiss

**Abstract**

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**Abbreviations**

|  |  |
| --- | --- |
| EOA | Example of Abbreviation |
| AEA | Another Example Abbreviation |

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Table 5.1. XXXXXX.

Table 5.2. XXXXXX.

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# Introduction

# Justification and Motivation for the Chosen Topic

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But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness. No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful. Nor again is there anyone who loves or pursues or desires to obtain pain of itself, because it is pain, but because occasionally circumstances occur in which toil and pain can procure him some great pleasure. To take a trivial example, which of us ever undertakes laborious physical exercise, except to obtain some advantage from it? But who has any right to find fault with a man who chooses to enjoy a pleasure that has no annoying consequences, or one who avoids a pain that produces no resultant pleasur

Table 1.1. Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusant

# Problem Statement

# Research Objectives

# Background

# What is Federated Learning

# History of FL

# Types of FL

# FL vs Distributed Computing

# State of the Art

# Literature Review

# Theme A Federated Learning Frameworks

# Theme AA

# Theme B

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# Theme BB

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# Theme C

# Theme D

# Theme DD

# Theme E

# Conclusion

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Identification of gaps

# Research Methodology

# Methodology Framewor

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# Project Management Framework

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# Business Requirements

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# Data

# Data Preparation

# 3.11. Limitations and Ethical Considerations

# Data Analysis

# Data Collection

# Initial Data Extraction and Exploration

# Data Elaboration

# Data Elaboration 2

# Conclusion

# Data Preparation

# Data Cleaning

# AAAAA

# AAAA

# BBBB

# CCCC

# Experimentation

# aaaaaa

# BBBB

# CCCCC

# Experimentation BBBBB

# CCCCCC

# Validation of the Experimentation’s Results

# Validation BBBB

# Research Conclusion: Summary, Limitations, and Recommendations

# References: