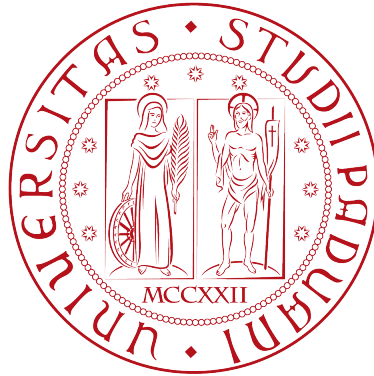


University of Padua

DEPARTMENT OF INFORMATION ENGINEERING

MASTER DEGREE IN ICT FOR INTERNET AND MULTIMEDIA



Leveraging cloud and machine learning  
technologies for the development of a  
knowledge IOT database

*Master thesis*

*Relator*

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# Summary

This document describes the work done during the 750 hours final project at **221e S.r.l.** The project's goal is to architect and develop a cloud-based system capable of ingesting and processing data from heterogeneous IoT sensors so that a knowledge database can be built.

The system must be designed to be scalable and fault-tolerant, and it must be platform-agnostic.

This document is going to describe the company, the idea behind the project, the work done and an assessment on what I developed and learned during my internship.

“If the past is just dust  
Then the future could be our dream”

— Lorna Shore

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*Padova, October 2024*

Alessandro Discalzi

# Contents

<b>1</b>	<b>Introduction</b>	<b>1</b>
1.1	The Company . . . . .	1
1.2	Idea . . . . .	1
1.3	Thesis outline . . . . .	1
<b>2</b>	<b>Requirements</b>	<b>2</b>
2.1	Data . . . . .	2
2.2	Security . . . . .	2
2.3	Cloud . . . . .	2
2.4	Scalability . . . . .	2
<b>3</b>	<b>Methodology</b>	<b>3</b>
3.1	Data Collection . . . . .	3
3.2	Architecture . . . . .	3
<b>4</b>	<b>Results</b>	<b>4</b>
4.1	Tests . . . . .	4
<b>5</b>	<b>Conclusion</b>	<b>5</b>
5.1	Objectives achieved . . . . .	5
5.2	Future developments . . . . .	5
5.3	What I learned . . . . .	5
5.4	Final considerations . . . . .	5
<b>6</b>	<b>Bibliography</b>	<b>6</b>

## List of Figures

## List of Tables

# Chapter 1

## Introduction

### 1.1 The Company

### 1.2 Idea

### 1.3 Thesis outline

[The second chapter](#) describes ...

[The third chapter](#) describes ...

[The fourth chapter](#) assess ...

[The last chapter](#) describes ...

## Chapter 2

# Requirements

2.1 Data

2.2 Security

2.3 Cloud

2.4 Scalability



## Chapter 3

# Methodology

*Introduction*

**3.1 Data Collection**

**3.2 Architecture**

# Chapter 4

## Results

*Chapter intro*

### 4.1 Tests

## Chapter 5

# Conclusion

- 5.1 Objectives achieved
- 5.2 Future developments
- 5.3 What I learned
- 5.4 Final considerations

## Chapter 6

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