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MD-921-022 - MSc in Data Analytics

Agricultural Data Analytics

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“Charles Xavier did more for mutants than you will ever know. My single greatest regret is that he had to die for our dream to live.” - Eric Lensherr, 2006

Abstract

This is a sample thesis layout with AI and Software development headings to guide you in developing your thesis. It contains styles, formatting, and a suggested structure with features like headers, footers, page-numbers, Table of contents, Table of figures and managed references.

It is a useful and common practice to put the abstract in Times New Roman 12-point italics. Throughout this document the styles used reflect the styles we suggest you use in your scientific report.

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# Introduction

This chapter will begin by outlining the (cf. 1.1) for the purpose of writing a Report for a Project and outlining paragraphs

## The academic objectives

“I designed the Exocomps to be problem solvers” … “So, in a sense, they are learning.”  
– Doctor Farallon and Commander Data, 2369

The academic objectives of this project are to study and gain experience working with blah.

The chosen problem used for this study is blah. The proposed blah.

## The Problem Domain

This chapter will begin by outlining the (cf. 1.1) for the purpose of writing a Report for a Project and outlining paragraphs

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2. Numbered Bullet list
3. Numbered Bullet item.
   1. Numbered Bullet item.
   2. Numbered Bullet item.
4. Numbered Bullet list

## Product title: a solution

## Objectives

## The Scope of the solution

## Report Structure

## Source code management (SCM)

The source is managed from GitHub with copies of the repository held at:

* <https://github.com/tahirawwad/agriculture-data-analytics>
* <https://github.com/markcrowe-com/agriculture-data-analytics>

# Irish Agriculture

## Farming

This chapter will begin by outlining the (cf. 1.1) for the purpose of writing a Report for a Project and outlining paragraphs.

### Soil Factors

A picture containing text, grass, outdoor

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Figure Soil Factors

Factors:

* Sun light
* Temperatures
* Water
* Soil pH
* Bio
* NPH (Nitrogen, Phosphorus, and Potassium):

### The Fourth Agricultural Revolution

### Employment

### Products/Output

### Supply Chain Management

Blockchain technologies: tracking

AgUnity and AgriLedger.

<https://www.vechain.com/>

<https://www.agryo.com/>

<https://www.agunity.com>

### Technology and AI in farming

## Irish Customers

### Trends

### Markets

### Competitors

### Forecasts

## Approach: SEMMA

## Report Objectives

### Land distribution

#### Comparison to other Countries

#### Crops vs Feeding-food vs Livestock

#### Land utilization (area/production)

### Economic forecasts

This chapter will begin by outlining the (cf. 1.1) for the purpose of writing a Report for a Project and outlining paragraphs.

### Food Balce Sheets/Food Security

Food balance sheet shows a brief picture of the pattern of the food supply of a country. For each food item, it sketches the primary commodity availability for human consumption i.e., the sources of supply and its utilization in terms of nutrient value. From Wikipedia

### Water Utilization

This chapter will begin by outlining the (cf. 1.1) for the purpose of writing a Report for a Project and outlining paragraphs.

## Machine Learning

## Conclusion: The Need for a ?

# Data Understanding and Preparation

under the headings of (i) sub-topic 1 (cf. 1.1.0), and (ii) sub-topic 2 (cf. 1.1.1)

## EDA of Land Usage

This chapter will begin by outlining the (cf. 1.1) for the purpose of writing a Report for a Project and outlining paragraphs.

## Sentiment Analysis of Twitter

This chapter will begin by outlining the (cf. 1.1) for the purpose of writing a Report for a Project and outlining paragraphs.

## Conclusion

This chapter has outlined the …

This chapter will begin by outlining the (cf. 1.1) for the purpose of writing a Report for a Project and outlining paragraphs.

# Statistical Analysis

## Introduction and aims

This chapter will begin by outlining the (cf. 1.1) for the purpose of writing a Report for a Project and outlining paragraphs.

## Statistical Analysis of Land Usage

This chapter will begin by outlining the (cf. 1.1) for the purpose of writing a Report for a Project and outlining paragraphs.

## Sentiment Analysis of Twitter

This chapter will begin by outlining the (cf. 1.1) for the purpose of writing a Report for a Project and outlining paragraphs.

# Machine Learning

This chapter will begin by outlining the (cf. 1.1) for the purpose of writing a Report for a Project and outlining paragraphs

## Introduction and aims

This chapter will begin by outlining the (cf. 1.1) for the purpose of writing a Report for a Project and outlining paragraphs.

## Machine Learning of Land Usage

This chapter will begin by outlining the (cf. 1.1) for the purpose of writing a Report for a Project and outlining paragraphs.

## Machine Learning of Analysis of Twitter

This chapter will begin by outlining the (cf. 1.1) for the purpose of writing a Report for a Project and outlining paragraphs.

## Testing

## Conclusion

This chapter has outlined the …

# Conclusion and Recommendations

## Conclusion

This chapter will begin by outlining the (cf. 1.1) for the purpose of writing a Report for a Project and outlining paragraphs.

## Recommendations

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[Accessed 07 Januaray 2021].

Glossary

|  |  |
| --- | --- |
|  |  |
| EDA | Exploratory Data Analysis |
| NPH | Nitrogen, Phosphorus, and Potassium |

1. Reflections

“We must, indeed, all hang together or, most assuredly, we shall all hang separately.” - Benjamin Franklin (The only president of the United States who was never president), 1776

* 1. Roles
  2. Skill Matrix
  3. Contributions
  4. Project Plan: Priorities and Milestones

1. Project Management

"I bring order to chaos" - The Borg Queen, 2373

A few sentences about how the project was managed. A bit about the code, the document, the research, budget and timing, management frameworks and so on.

* 1. Report Structure
  2. Code Style Guide

"This appears to be a region of space that doesn't have many rules. But I believe we can learn something from the events that have unfolded. In a part of space where there are few rules, it's more important than ever that we hold fast to our own." – Captain Janeway, 2372

1. Development Environment