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**Evaluation cover page**

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| *Student Number:* | 2024017 |
| *Module Title:* | Strategic Thinking |
| *Evaluation Title:* | CA 1 – Assignment of the final project proposal |
| *Assessment Due Date:* | 29/03/2024 |
| *Presentation Date* | 25/03/2024 |

**Declaration**

By submitting this review, I confirm that I have read CCT's policy on academic misconduct and understand the implications of submitting work that is not mine or that does not appropriately reference material taken from a third party or other source.

I declare that it is my own work and that all third-party material has been properly referenced.

I further confirm that this work has not previously been submitted for evaluation by me or anyone else at CCT College Dublin or any other higher education institution.

**Title:** Impact of Climatic Events on Grain Pricing.

**Introduction**

Agriculture is a complex sector that involves different driving parameters (environmental, economic, and social). Agricultural production is now known to be highly sensitive to climate change (Easterling et al., 2007).

Climate change affects all agricultural sectors in a multitude of ways that vary from region to region, reducing the predictability of seasonal weather patterns and increasing the frequency and intensity of extreme weather events, such as floods, cyclones, and heatwaves (FAO, 2011).

These climatic changes directly affect the supply and demand of cereals in the market and are therefore reflected in the price by what we know as The Law of Supply and Demand.

Of all the categories of commodities, grain commodities prices play a critical role in everyone's daily life. Fluctuations in grain commodities prices pose a threat to consumers and lead to instability in the incomes and operations of farmers' households (Ayankoya et al., 2016).

That said, this project seeks to offer for management the option to compare how prices developed during these events.

**Objectives**

1. Understand the relationship between grain price movements and significant weather patterns.
2. Predict future grain prices, assisting traders and stakeholders in decision-making.
3. Minimize risk in trading by predicting futures values.
4. Offer alternative solutions to commercialize grains.

**Defining the Problem**

Agricultural production is affected by different market factors, which affect supply and demand and in consequence pricing.

Climatic factors in agriculture are difficult for managers to manage because they cannot be controlled by them

To what extent would a bad harvest affect my investment, how much would it affect my profits if prices are not favorable

What marketing alternatives could be adapted by the managements having the option of ensiling the grains waiting for a better price behavior

What alternatives to take in the hypothetical event that a weather phenomenon appears and prices are not favorable to obtain profits.

Scope

**Why?**Conocer el comportamiento de los precios cuando un factor externo lo afecta es una herramienta importante en la toma de decisiones de las gerencias para de esta manera tratar de minimizar los riesgos en la producción o buscar alternativas en la comercialización de los granos

**What when an how will be delivered ?** compare how prices developed during climate event using futures prices and implementing deep learning techniques

Inclusion&Exclusion

**Timeline:**

* Develop the project proposal
* Work in cleaning data set if is necessary
* Implement deep learning techniques

Data Sources

The data has been taken from an online source that is Kaggle.

Link: https://www.kaggle.com/datasets/guillemservera/grains-and-cereals-futures?select=individual\_data

Ethical Considerations

Ethics concerns questions about how people should act and what constitutes truthful behavior (Lewis,1985).

Abstract

[NOTE: This section is designated for abstract. Abstracts are not assigned a page number and must precede the table of contents. If an abstract is unnecessary for your work, please delete this page.]

Attention: All notes must be removed from the document before sending it!

Content

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# Introduction

# Chapter 1

## Chapter 1.1

### Chapter 1.1.1.

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[NOTE: In order for the table of contents to work properly, you must use the correct headings for all of your chapters and subchapters.

**Title 1:** This is the main title and should be used for the main title or chapter. For example: CHAPTER 1.

**Heading 2:** Use Heading 2 as a subtitle. For example: Chapter 1.1.

**Heading 3:** Heading 3 provides a more detailed breakdown, as does Chapter 1.1.1.

By adhering to this hierarchical structure, an organized and effective document outline is ensured, improving readability and navigation. However, you are not required to use all 3 headings, usually, headings 1 and 2 are sufficient.

The rest of the text should be written in a normal font.]

# References