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**Assessment Cover Page**

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| *Module Title* | Strategic Thinking (HDip in Data Analytics) |
| *Assessment Title* | CA 1 – Capstone Project Proposal |
| *Assessment Due Date* | 29th March 2024 |
| *Date of Submission* |  |

**Declaration**

By submitting this assessment, I confirm that I have read the CCT policy on academic misconduct and understand the implications of submitting work that is not my own or does not appropriately reference material take from a third party or other source.

I declare it to be my own work and that all material from third parties has been appropriately referenced.

I further confirm that this work has not previously been submitted for assessment by myself or someone else in CCT College Dublin or any other higher education institution.

Abstract

The House Price Prediction capstone project has the objective to develop a predictive machine learning model that can accurately estimate house price. The significance of this project lies in its practical application in the real estate industry, public sectors, and provide buyers, and sellers with information in the results provide by the model.

According to the Statista Research Department (published on Jan 8, 2024), between 2015 and 2023, the house price-to-income ratio in Ireland grew by nearly 17 index points, signifying an increase in house values relative to earnings. This trend makes homeownership in Ireland more challenging due to the decreasing affordability of dwellings (Statista, 2024).

The model predictions can contribute to a more transparent and efficient real estate market, price negotiation for buyers and sellers and public government in deciding where and when the building of social houses will affect positively the population. By addressing the challenges associated with house price estimation, the project aims to provide valuable insights for market participants.

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# References

Statista Research Department. (2024, January 8). Annual house price change in Ireland. Retrieved from [ [https://www.statista.com/statistics/1155332/annual-house-price-change-in-ireland/]