MSc in Software Design with Artificial Intelligence

Initial Project Concept

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| Student Name: | Simon McLain |
| Student Number: | A00279668 |
| Project Title: | Improving the prediction of future COVID-19 cases in Ireland |
| Project Background: | Machine Learning models for COVID-19 prediction could potentially improve the prediction of infections within a community.  As we enter a new phase in the pandemic accurate predictions of COVID-19 cases could notify the relative risk of infection, providing beneficial insights for public health services and for the community. |
| Project Challenge: | Create a Machine Learning model that improves prediction of future COVID-19 cases on the island of Ireland. |
| Proposed Approach: | Conduct a comparative analysis of relevant Machine Learning then create an implementation tailored for Ireland.  Project Milestones   * Conduct a literature review.   + Machine learning models applied to COVID-19   + Review of COVID-19 model usage in Ireland * Select variables and gather data. * Using Python to create, evaluate and select the best performing Machine Learning model. * Evaluate whether the selected model improves prediction of future COVID-19 numbers. |