**SUMMARY OF THE PROJECT**

Governments across different countries anticipate more lockdowns. It is a very concerning issues for the wellbeing of young children in lockdown situations as they are removed from their friends and play environments.

The task you have been assigned is to examine the factors that determine the wellbeing for young children. To ensure that a biased interpretation does not get involved you are expected to work on:

(a) A standard statistical analysis using regression, and

(b) Factors that might be important to children, but which adults are not aware of, are to be included in the model.

Survey:

A questionnaire filled by children with parent consent during their usual school day. Confidentiality of the data is utmost important hence, data is masked. Only the answers for the questionnaire are provided. Parents were also invited to complete a questionnaire about their child.

You have been given:

1. The raw data of a survey with primary school children when they were in the first lockdown.

2. The data dictionary.

**Tasks:**

• Data Pre-processing - You will need to prepare the data set so you can analyse it (e.g. convert string variables to numerical variables).

• Calculate child wellbeing. Q24 is the Me and My Feeling measure

• Look at what determines wellbeing with both

a) A continuous measure, and

b) A binary measure (using logistic regression)) using a hypothesis driven approach. • Look at what determines wellbeing using a data-driven / machine learning approach (e.g. decision trees)

• Present and interpret your findings.

Assessment Criteria:

• If you/your team use more than one language (e.g., BI, Python and SQL) or multiple files, please create a zip file containing all the scripts and submit the zip file instead. • Assessment will be based on the structural approach taken by the team for problem solution including the dashboard (reporting), documentation, and codes developed (optimized).

• Recommended reporting structure to follow: Introduction, Methods, Results, Discussion