**Part 1: SDG Selection and Problem Definition**

The 4th Sustainable Development Goal: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.

There are so many problems within this SDG that can be addressed using data.

* By helping identify gaps in access to education, such as disparities between urban and rural areas or between different socioeconomic groups. By mapping school locations, and analyzing enrolment rates, policymakers can target the most needed interventions.
* By monitoring student performance through assessments and evaluations can help provide insights on the quality of education.
* To ensure that the educational resources are sufficient in the educational system. Making resources such as textbooks, and teaching equipment available in areas where it is deficient. By gathering information on where the resources are needed, they can then be allocated accordingly. Ensuring that schools have adequate resources is crucial for delivering quality education.
* Learning outcomes and Inequality. Analyzing data on learning outcomes across different demographic groups can reveal disparities and help develop targeted strategies to address educational inequalities. This includes examining outcomes by gender, income level, and disability status.
* Skills Development: Data on the alignment between educational curricula and labor market needs can help ensure that education systems are preparing students with relevant skills for future employment. This includes tracking employment outcomes for graduates.