# One Page Report
# Analytical Dashboard

## 1. Topic

Sustainable Development Goal (SDG) Dashboard for Clean Water and Sanitation - Target 6.2 Analysis on different countries over the years

## 2. Tech Stack
- Python
- Dash (for building the web app)
- Plotly Express (for interactive visualizations)
- Pandas (for data manipulation)

## 3. Development Environment
- Utilises Python Virtual Environment for install particular dependencies
- Google Colab for data cleaning

## 4. Dataset

The project utilizes data from the World Health Organisation, (WHO) about Sustainable Development Goals (SDGs) related to SDG 6 (Clean water and Sanitation), specifically Target 6.2. The dataset includes information on sanitation services, handwashing facilities, and population percentages across different countries. [Link to Dataset.](Link to Dataset.)

## 5. Brief Description
The SDG Dashboard Web App provides a visual exploration of population trends related to safely managed sanitation services and basic handwashing facilities at home. Users can interact with dynamic dashboards, select specific countries, residence area types, and years, gaining insights into the progress towards SDG 6.2 targets.

The application leverages Python for backend processing and utilizes the Dash framework for web app development and reactive programming. Visualizations are created using Plotly Express, allowing for interactive and customizable line charts. Pandas is employed for efficient data manipulation, ensuring a seamless user experience.

**GitHub:** [Analytics Dashboard](Analytics Dashboard)

**Snapshots:** [Google drive link](Google drive link)