Final Portfolio Project Proposal

Aim: This plan reveals the strategy for the end-of-course project in 5CS037 – Concepts and Technologies of AI. The project will include two parts: one is predicting continuous values, and the other is sorting into categories, with both relating to Sustainable Development Goals (SDGs).

1. Regression Task

Investigation Query: How might we estimate property sizes (measured in square meters) by looking at details like room count, bathroom tally, and amenities offered?

Information Set Summary:

- **Data Source**: We got the info for this job from test_data.csv.
- **Main Stuff to Look At**: Check out the rooms, bathrooms, elevator, pool, driver, and garden.
- **What We're Measuring**: We are looking at sqm—how big places are in square meters.
- **Amount of Data**: We've got 930 entries and 10 different things we're checking out.
- **Making the Data Ready**: Gotta make sure all the features look the same, figure out the weird ones, and maybe turn some into numbers if we need to.

Going Green and Making Cities Better: Okay so this job is sorta like **SDG 11: Sustainable Cities and Communities.** We're using it to think smart about cities and where people live to help out with all the folks moving into cities and needing places to stay.

2. Classification Task

Inquiry on Research: What is the method for machine learning algorithms to label animals by whether they're harmful using signs of their behavior?

Information on Data Used:

- **Origin**: 'data.csv' is the file we're using for this project.
- **Main Factors**: Listed as symptoms1 through symptoms5.
- **Goal for Sorting**: Identifying animals as Dangerous (a yes or no type deal).
- **Bulk of Data**: 871 entries and 7 categories.
- **Puzzles in Preprocessing**: We gotta fix the blank spots in the Dangerous section and make how we describe symptoms regular so it's easier to work with.

This job lines up with **SDG 3: Good Health and Well-Being**. It helps spot and tackle animal health dangers. These can rock the boat of public health too.