

Analyse Car Listings

Objectives

This program is designed to analyse car listings from Motorist and SGCarMart websites, extracting pricing and depreciation data to generate a summarized report in both CSV and PowerPoint formats

Features

- **Custom GUI:** Enter URLs directly through an intuitive interface.
- **Web Scraping:** Scrapes depreciation data from car listing websites.
- **CSV Output:** Saves processed results into CSV files.
- **PowerPoint Summary:** Automatically generates a PowerPoint presentation with the top 3 and bottom 3 listings by depreciation for each car model.

Code

- **gui.py:** Handles the graphical user interface, collects URLs, and triggers the analysis process.
- **scrape_and_process.py:** The main logic for scraping data from the websites and processing the car listings.
- **Search Analysis.py:** Contains search analysis functions that process the scraped data and create output files.

Data

For each website and each car make searched for, every single car for sale on the list for that specific make of car will have its respective price, depreciation value and exact model listed in the output files

How to Use

- **Input URLs to each desired list of car makes/models**
- **Click Run Analysis**
- **Open the newly created CSV and PPT files and view every car's pricing and depreciation value at your leisure**

The screenshot shows a macOS-style window titled "CTK" with a dark gray background. The main heading is "Car Listings Analysis". Below it, there are two sections: "Motorist URLs" and "SG Car Mart URLs". Each section contains four input fields. The first field in the "Motorist URLs" section contains the text "%9C%93&keywords=MAZDA+2". The first field in the "SG Car Mart URLs" section contains the text "m/used-cars/listing?q=mazda+2". At the bottom of the window is a blue button labeled "Run Analysis".

CTK

Car Listings Analysis

Motorist URLs

%9C%93&keywords=MAZDA+2

%9C%93&keywords=MAZDA+3

Motorist URL 3

Motorist URL 4

SG Car Mart URLs

m/used-cars/listing?q=mazda+2

SG Car Mart URL 2

SG Car Mart URL 3

SG Car Mart URL 4

Run Analysis