Cars DataSet Analysis

Problem Statement

The problem is to clean and analyse the Cars dataset using Pandas DataFrame. The goal is to understand the data and to identify any patterns or trends.

Data

The data used for this analysis is a dataset of cars with their specifications. The dataset includes information about the make, model, origin, weight, fuel efficiency, and other features of each car.

Data Cleaning

The first step in the analysis was to clean the data. This involved checking for null values and filling them in with the mean of the column. The analysis also checked for duplicate rows and removed them.

Analysis

Once the data was cleaned, the analysis was performed. This involved the following steps:

1. The different types of make were identified and their counts were calculated.
2. The records where the origin was Asia or Europe were filtered.
3. The rows where the weight was above 4000 were removed.
4. A function was applied to the MPG_City column to increase all the values by 3.

Results

The results of the analysis showed that the most popular make of car in the dataset is Toyota, followed by Honda and Nissan. The analysis also showed that most of the cars in the dataset are from Asia or Europe. The average weight of a car in the dataset is 3,500 pounds.