

Predict Car Prices

Project Proposal for Scraping and Regression

Abstract:

Most people have the problem of not knowing the price of a car when selling it. So, we will use data from cars.com to help them determine the expected price of their car based on their car specifications and built a linear regression model to predict car prices.

Question/need:

The goal of this project is to predict car prices.

Anyone who wants to buy cars will benefit from this model.

Data Description:

Using cars.com dataset. The focus is on Audi cars. Using Python library BeautifulSoup to scrape the cars information.

The dataset contained about 6 features: description, dealer, miles of driving, rate, number of reviews, and price.

Tools:

The tool that we need is Pandas packages to manipulate data, BeautifulSoup to scrape data, LinearRegression from the sklearn.linear_model class of the sklearn module to perform the linear regression then predicted the number of days, Scikit Learn Framework and visualization library (such as Seaborn and Matplotlib), Metrics library to see the model performance on data, and Jupyter notebook to execute the code. till now we are not planning to use any additional tools.

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