Mohammed VI Polytechnic University
Master executive

2022-2023

Multi-Criteria Decision Making: Select Best Car

Introduction:

Multi-Criteria Decision Analysis (MCDA), also known as Multi-Criteria Decision-Making (MCDM), is about making decisions when multiple criteria (or objectives) need to be considered together in order to rank or choose between alternatives. In this project, you will use MCDA for selecting the best car depending on multiple criteria (Car price, mileage, brand, color ...)

Objectives:

By doing this project you will gain first-hand experience with a real problem, and apply the skills that You learned before, and be proficient in :
- Web scraping
- Data Analysis and visualization with Pandas and Matplotlib.
- Problem Solving and Algorithm technics (Multi-criteria decision-making).

Problem Statement:

Suppose you decide to buy a car. and You don't want to choose randomly. instead, as a data analysis, you investigate to analyze the stock market of cars and choose wisely the best car fitting your requirements using the skills that you learned before.

You will have to do these steps below in order to select the best car:

- Getting the car data set in the Morocco market from Opensouk or any website of your choice.
- Clean and analyze your data.
- Use MCDA algorithm for selecting the Best car (less mileage, newest model ...)

Pr: Nouredine Ouhaddou