# Recommendation for car choice

I want to create AI, which gives choice recommendations to people who are searching to buy a car. The problem nowadays is that you have such a wide range of cars, that you don't know which one to choose. People end up choosing the wrong car and blame it afterwards that it's bad – but it's not true. There are no bad cars, but a wrong-chosen one based on your needs. You might have the most expensive nail clipper, but if you are using it for cutting your hair, you wouldn't find it useful. The same goes for the car, if you are looking for an economy car for your family and you end up buying a two-seat sports vehicle, you wouldn't be happy. That's why I decide to make a tool, which to help you make a decision about a car purchase. It will take your social media images, process them and based on your lifestyle, the AI will give you a recommendation for a car. This tool will be for everybody, who is considering buying a car, but is not sure which one to choose. I think my solution is the best, because I will try to put as many as possible factors to be taken into account for the decision, so it will outstand the dealer's recommendation, which more often the car they want to sell. If you don't like to go around, and hear different recommendations from everybody and end up even more confused, this tool is for you! The data which the AI will be using will contain information and specification for most of the vehicles out there, and it will learn to match this information with user needs. For example, if you are low on budget, it will recommend you a cheap car, with low mileage consumption and cheap maintenance. Or if you have a family of 6, it will recommend a van. This tool's positive impact is that fewer people will end up spending money on the wrong cars and less stress in general when choosing a car. The negative impact is that the AI might not be 100% correct, so if it ends up giving the wrong recommendation and people jump for it, without double checking, they will be disappointed. Additionally, the model could give too obvious car recommendations and if it's too complicated, it might take a long for the algorithm to output the answer.

With this project, I want to prove that I, as a student, am able to communicate complex AI concepts and applications to non-technical audiences.

After completing this course, I want to be able to effectively communicate complex AI concepts and applications to non-technical audiences, such as stakeholders or members of the general public. I will be able to explain the fundamental concepts of AI in a clear and concise manner, and provide concrete examples of how AI is being used in different fields. I will be able to identify and address common misconceptions and concerns about AI, such as its potential to replace human workers or perpetuate biases. I will also be able to effectively communicate the ethical and societal implications of AI, and engage in constructive dialogue with stakeholders from diverse backgrounds. I will be familiar with a range of communication techniques and tools, such as storytelling, visualization, and public speaking, and be able to adapt their approach to different audiences and contexts. This will be my personal gold during the semester!

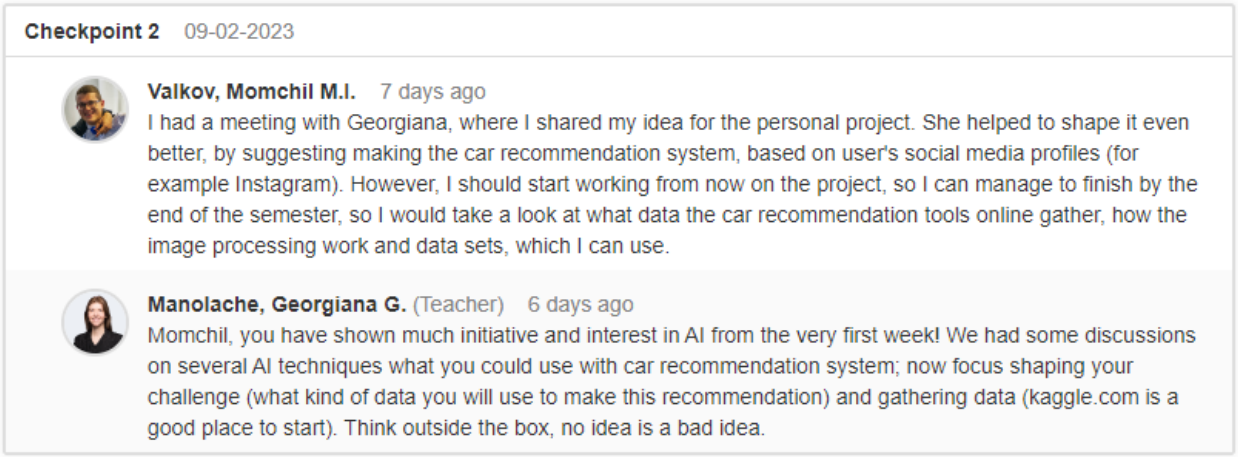
## Possible dataset to use

https://www.kaggle.com/datasets/ander289386/cars-germany

https://www.kaggle.com/datasets/tr1gg3rtrash/cars-2022-dataset

https://www.kaggle.com/datasets/joanpau/cars-df

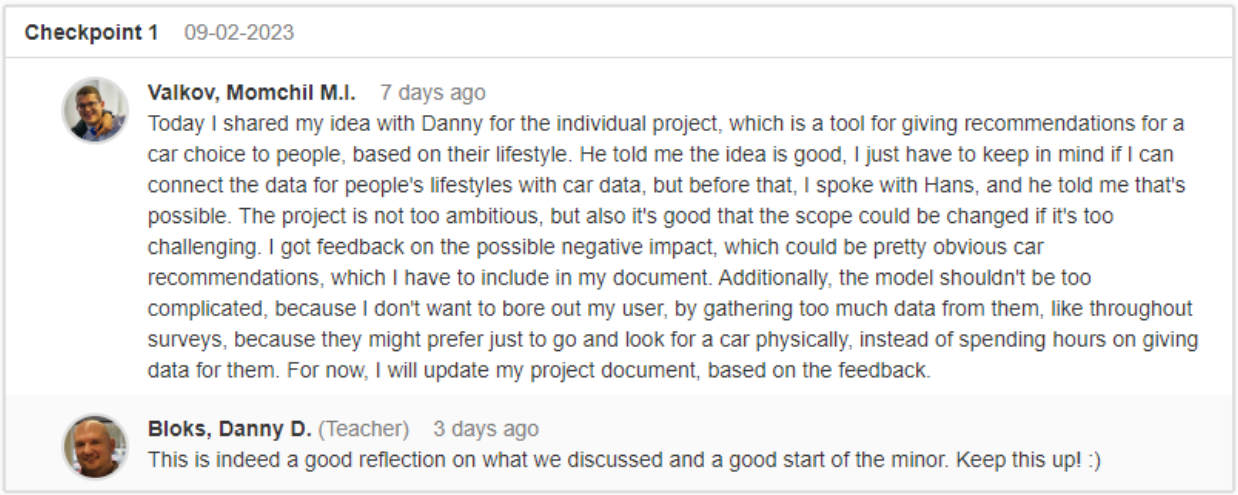
## Consultants Approval



**Checkpoint 2** 09-02-2023

**Valkov, Momchil M.I.** 7 days ago
I had a meeting with Georgiana, where I shared my idea for the personal project. She helped to shape it even better, by suggesting making the car recommendation system, based on user's social media profiles (for example Instagram). However, I should start working from now on the project, so I can manage to finish by the end of the semester, so I would take a look at what data the car recommendation tools online gather, how the image processing work and data sets, which I can use.

**Manolache, Georgiana G.** (Teacher) 6 days ago
Momchil, you have shown much initiative and interest in AI from the very first week! We had some discussions on several AI techniques what you could use with car recommendation system; now focus shaping your challenge (what kind of data you will use to make this recommendation) and gathering data (kaggle.com is a good place to start). Think outside the box, no idea is a bad idea.



**Checkpoint 1** 09-02-2023

**Valkov, Momchil M.I.** 7 days ago
Today I shared my idea with Danny for the individual project, which is a tool for giving recommendations for a car choice to people, based on their lifestyle. He told me the idea is good, I just have to keep in mind if I can connect the data for people's lifestyles with car data, but before that, I spoke with Hans, and he told me that's possible. The project is not too ambitious, but also it's good that the scope could be changed if it's too challenging. I got feedback on the possible negative impact, which could be pretty obvious car recommendations, which I have to include in my document. Additionally, the model shouldn't be too complicated, because I don't want to bore out my user, by gathering too much data from them, like throughout surveys, because they might prefer just to go and look for a car physically, instead of spending hours on giving data for them. For now, I will update my project document, based on the feedback.

**Bloks, Danny D.** (Teacher) 3 days ago
This is indeed a good reflection on what we discussed and a good start of the minor. Keep this up! :)

Here you can find the research, which I did for myself, based on Georgiana suggestion.