



# **Python Case Study Vehicles and Cars WEEK 3**



**Data Science  
Academy**

**CASE STUDY**



**Disclaimer: While the case is real, data modified for educational purposes.**

**You have been given the data of a superstore that sells office equipment.  
Answer the following questions by setting up 1 graph for each question.**

1. Create **Car** Class that has 3 class attributes: year, mpg and speed.
2. Create 2 methods for the Car class:  
**Accelerate** and **break** where the speed of the car changes when this methods are called.
3. Change all class attributes to instance attributes.
4. Create a class vehicle and create inheritance between car and vehicle.
5. Create a new class bus which has the same methods as car and inherits from Vehicle.
6. Change some of the instance attributes to the private attributes.