

Accidents with cyclists — A guide to avoid them

Author: Patrick Queiroz dos Anjos

Business Understanding

The use of bicycles as a means of transport, as sports or just for recreation, has increased dramatically during the recent years. The bicycle is a vehicle that has no pollution (direct, in its use) and, therefore, is considered one of the cleanest means of transport, in terms of the environment, to use.

But, unfortunately like any other means of transport, the bicycle and the cyclist are liable to suffer some accidents, from simple impacts to severe actions. To ride a bicycle a cyclist must pay attention to several issues on the road, such as weather conditions on the day.

These conditions can help in the fact that in a rain condition, for example, the tendency that the cyclist has to lose control of his bicycle is greater, due to the aspect that, at a given speed, the control of his vehicle is impaired. Other climates are more severe, such as snow and milder ones, such as its use on sunny days.

Lighting in front of the road where the bicycle will be used is also important. Road conditions must be suitable for use, such as a well-lit environment. Environments in low light or with different colors, such as at dusk, can be prone to possible accidents.

The environment where the cyclist will be used, usually on roads, is also relevant. Conditions where there is a road with sand, or with a road after rain indicate a greater inclination for accidents. The opposite is also true, as conditions where the road is dry denotes greater initial safety for cyclists.

The environment where the bicycle will be used can also influence accidents, such as at intersections where, by some different means, such as rain and a wet road, they can increase the likelihood of accidents.

So, this project aims to identify certain parameters, such as weather, road conditions, light conditions and the collision address type to demonstrate and indicate patterns where accidents occur with cyclists and thus avoid, or be attentive to, the use of bicycles in the indicated parameters, through of a decision tree.

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Patrick Queiroz dos Anjos