ARTIFICIAL INTELLIGENCE IN SMART BIKING

SATARUPA SEN

Founder carryon.bike

INTRODUCTION:

Bicycle usage has seen a surge during the Corona Pandemic outbreak as many things become the new norm. We need to carryon with a new normal that should replace Business as Usual and also help be a key force to move towards a greener planet.

AIM:

As more and more people adopt cycling, it is important that the use of AI technology helps make biking SMARTER, SAFER and STRESS FREE

SOLUTION EXAMPLES:

Solutions like BICO which help commuters to distribute cycles uniformly in docking stations across any smart city through study of repeat usage behaviour of riders. ARI (outcome of joint research by IBM Research-Australia and RMIT University's Exertion Games Lab) is like a friend in the journey of an office commuter, helping catch more green lights by synchronizing traffic light data with the e-bike system to regulate speed. Programming the AI with IOT the bone-conducting headphones give instructions to the rider to maintain the optimal speed to catch more green lights.

To make a weekend ride enjoyable, iweech integrates the characteristics of the bike route which may include the typography, weather conditions , wind directions, tyre inflation or battery life etc, The smart control system gives the rider peace of mind.

CHALLENGES:

The solutions for smart biking is deeply related to human behaviour, human interactions and the system.

But there are no established best practices. The data usage is largely dependent on the user trust to share data. The variable data collections and making proper algorithms through smooth communication across different Engineering units to arrive at accurate solutions is another challenge.

CONCLUSION:

The right mindset to harness the power of AI in the cycling community to deliver real value is important. This can be achieved by being conscious of the risks, regulations that are geography specific and ethical aspects.