



2023 Challenge Puzzle

Innovation POC Developer

NoTraffic is revolutionizing the traffic management industry with its AI sensors deployed in cities. As NoTraffic continues to expand its sensors to more intersections and cities, they are looking for new markets beyond traffic management, including private companies like insurance and car manufacturers.

Your task is to develop a new solution leveraging NoTraffic infrastructure for these new markets.

Problem & Customers:

The problem is that private companies lack real-time data on their customers' driving behaviors, making it difficult for them to develop targeted solutions. The clients are private companies such as insurance and car manufacturers who need this data to create new products and services.

Solution:

The solution is to provide private companies with real-time data on driving behavior using NoTraffic's sensors. This can be achieved by creating a separate platform that integrates with NoTraffic's infrastructure and provides an API for the private companies to consume. The platform will collect data from the sensors and use machine learning to generate insights on driving behavior, which can be accessed by the private companies to create new products and services.

Code:

Please write an example code that demonstrates the solution briefly (Python).

An example can be:

```
while True:
    sensor_data = connect_to_sensor()
    traffic_controller_data = connect_to_traffic_controller() learning
    insights = process_data(sensor_data, traffic_controller_data)
    publish_to_api(insights)
```

You can Mock some of the functions for saving time:

But, be creative, you can use any data that you need - you can collect all data from all the clients in real time or not, focus on the value and show a short code for example.

Timelines:

The proof of concept (POC) can be completed within 2-3 months.

Please share a rational timeline including steps that you think should be part of the process.