

# MULTI-AGENT LLM FOR BETTER EV CHARGE EXPERIENCE

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DECENTRALIZED\_MOBILITY\_AGENTS



TEAM\_MEMINE

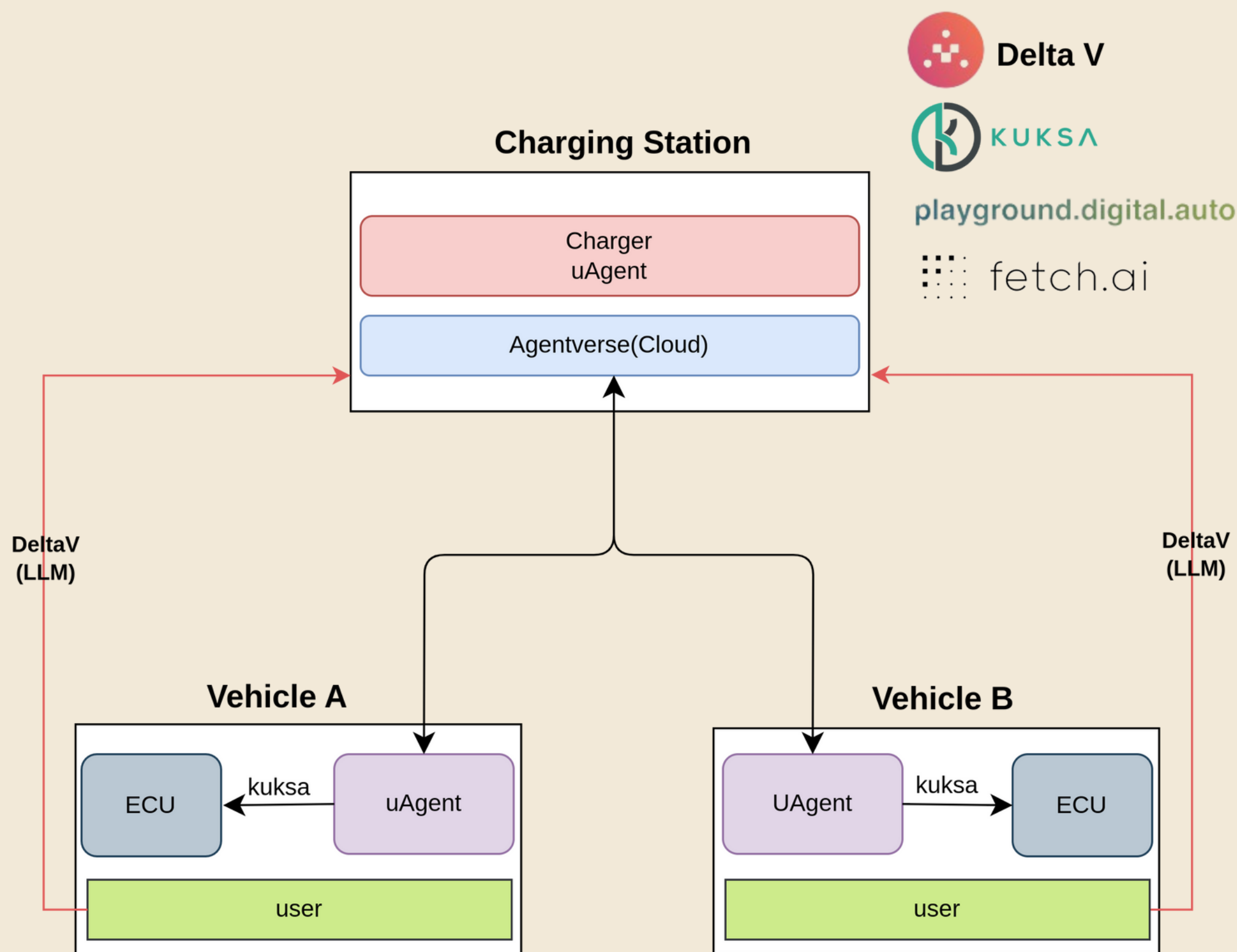
**How far can LLM  
change your life?**

How can leverage  
**Decentralized Multi-Agent**  
system?



# About?





**Vehicle A's reservation  
&  
☒ Notify User A**



**Charging Station  
Management System**



**Vehicle B's auto parking  
&  
☒ Notify User B**

# Demo

case1(Not Occupied)

The image shows a user interface for a car reservation system and a terminal window. The UI is dark-themed and includes a 'Beta' label, a 'Status' button, a 'Reserve' button with a checkmark, a red cluster icon, a confirmation message 'Please confirm the following details' with a circular arrow icon, a 'REQUEST Reserve' button, and a 'CONFIRMED' status indicator. At the bottom, there is a 'Please make your selection' prompt with a magnifying glass icon.

The terminal window on the right shows the following commands and output:

```
1 fr
2 fr
3 in
4 in
5
6
7 #
8 SE
9
10 #
11 pr
12
13 #
14 #
15 AC
16
17 #
18 ag
19
20
```

PROBLEMS

File "

t

fd\_e

Keyboard

^C

```
mczb@mcz ~$ ^C
mczb@mcz:~/bcx/MEMINE/agent/local$ python3 simulVehicle.py
Your agent's address is: agent1q00up4d66s77ywhjklzu732y5c4t
sv494v22shxljpgtzns4r8jzc87f73
INFO: [VehicleA]: Almanac registration is up to date!
INFO: [VehicleA]: Connecting to mailbox server at agentv
erse.ai
INFO: [VehicleA]: Mailbox access token acquired
```

The terminal status bar shows: main\* 0 0 Ln 105, Col 86 Spaces: 4 UTF-8 LF Python

Figure 1

A 2D plot with x and y axes ranging from 0 to 100. A green square labeled 'Charger' is located at approximately (40, 70). A blue square labeled 'Parking Lot' is located at approximately (80, 90). An orange dot is located at approximately (10, 10).

# Demo


## case2(Occupied)

Beta

Thanks, please wait.

I have executed the task 'Charging Station'.

Charger is Already Occupied, You need to wait!



I have completed your task! Please reset your chat session before submitting your new request.

Your response

```
1 fr
2 fr
3 im
4 im
5 #
6 SE
7 #
8 pr
9 #
10 #
11 AG
12 #
13 ac
14 #
15 #
16 #
17 #
18 #
19 #
20 #
```

PROBLEMS

t

fd\_e

Keyboard

^C

mczb@mcz

mczb@mcz

mczb@mcz:~/bcx/MEMINE/agent/local\$ python3 simulVehicle.py

Your agent's address is: agent1q00up4d66s77ywhjklzu732y5c4t

sv494v22shxljpgtzns4r8jzc87f73

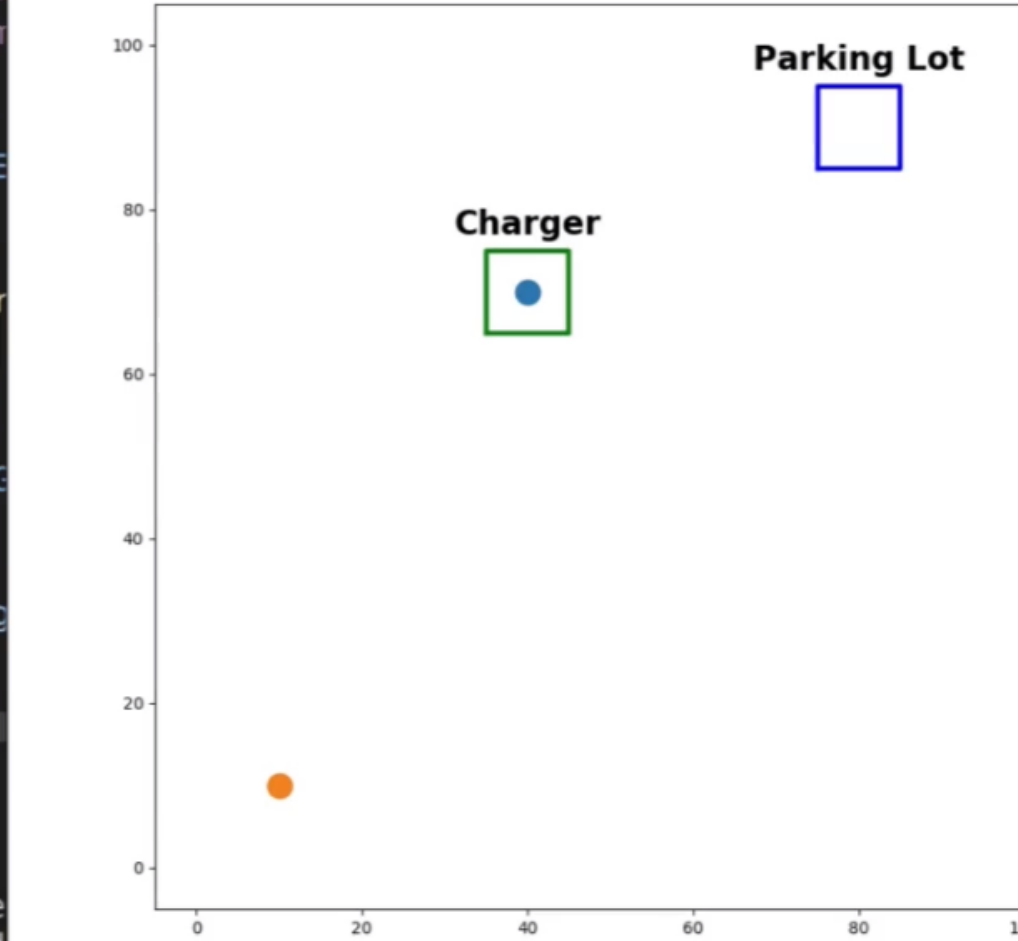
INFO: [VehicleA]: Almanac registration is up to date!

INFO: [VehicleA]: Connecting to mailbox server at agentv

erse.ai

INFO: [VehicleA]: Mailbox access token acquired

INFO: [VehicleA]: Got Message id : A, x : 1



0:21

-0:02



# Demo

case3(Occupied, Fully charged)

The image is a composite of three parts:

- Left Panel (User Interface):** A dark-themed interface with a "Beta" label in the top left. It features a "Find nearest charger plz" button, a "Breaking down the task" section with "1. Charging Station", and a "Please make your selection" input field at the bottom. A circular progress indicator is visible in the center.
- Middle Panel (Code Editor):** A code editor showing Python code for a vehicle simulation. The code includes comments and function calls like `python3 simulVehicle.py`. The terminal output shows messages from "VehicleA" regarding almanac registration, mailbox connection, and message acquisition.
- Right Panel (Figure 1):** A 2D plot titled "Figure 1" showing a "Charger" (blue dot) and a "Parking Lot" (blue square) on a coordinate system. The x-axis ranges from 0 to 80, and the y-axis ranges from 0 to 100. An orange dot is also present at approximately (10, 10).



# Business Model

## ☒ Businesses

Manage a small amount of charger to satisfy a large number of users

## ☒ Users

Enjoy freedom before and after charging



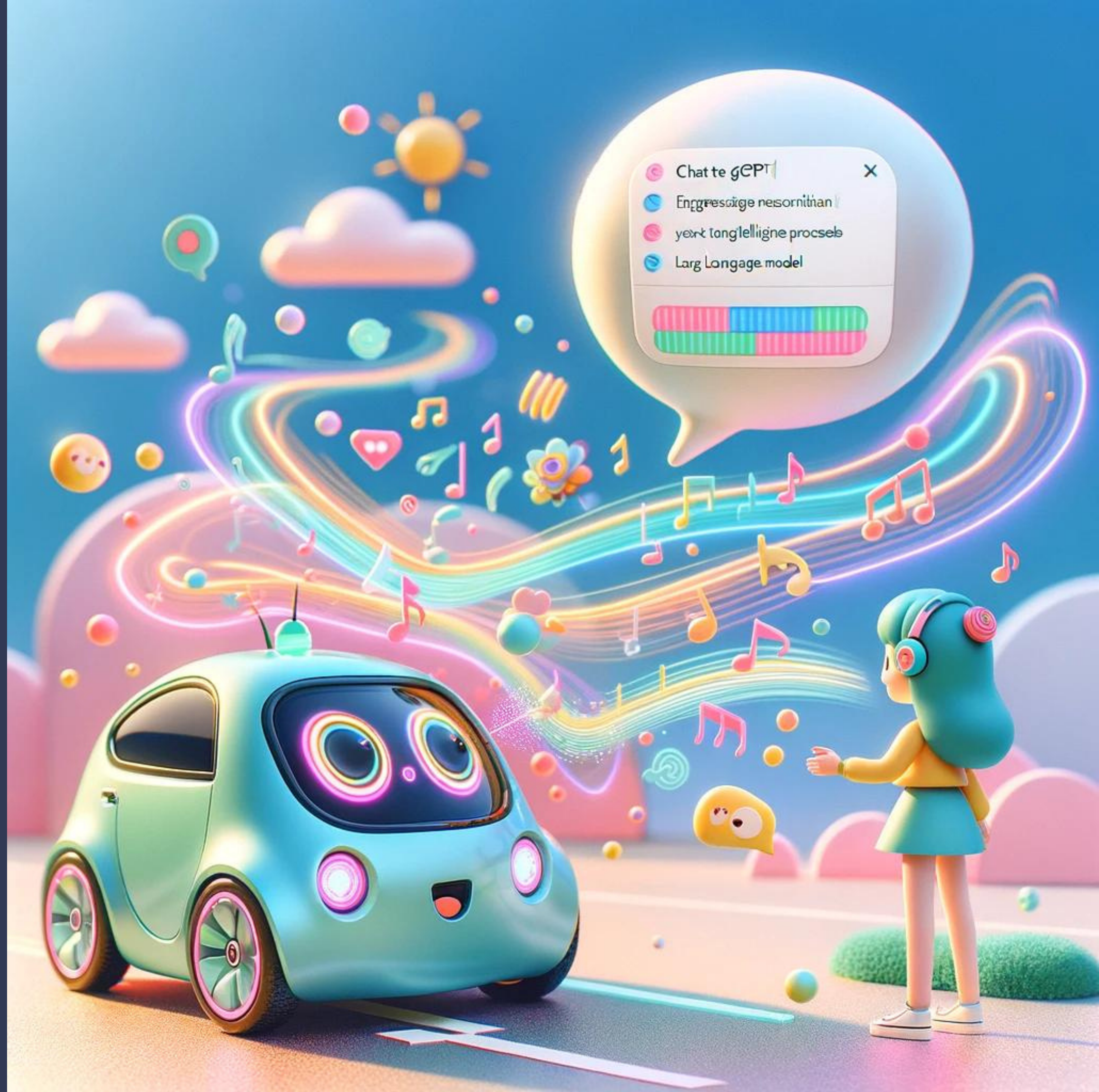


# Future Plan

**1. Integration of DeltaV with Voice Recognition**

**2. Vehicle Summoning System**

**3. Real World**



**Danke schön**