DLAV2024 PROJECT: TEAM SPONGIFLEX

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Github repo: https://github.com/merlebleue/DLAV2024-Spongiflex/tree/main

1. Milestone 1: 28th april 2024

1.1. Introduction

This project is about prediting precise vehicle trajectory prediction, using the UniTraj framework from VITA lab @ EPFL. For this part, the objective is mainly familiarising ourselves with the framework. We use the provided ptr model, with the default configuration, evaluated using minADE6 error.

1.2. Code

The code of the model can be consulted here: ptr.py The configuration is here: ptr.yaml

It consists of the provided code, with some parts we had to fill in. Here is our code:

Function temporal_attn_fn() :

• Function social attn fn():

• In the function _forward():

1.3. Results

Sadly, we encountered issues due to the presence of nan values in the dataset. This seemed to arrise from agents that do not exist in the sequence, but we did not manage to get rid of this error.