

# Weekly Progress Report

**Topic : - Offline Track association problem**

**Group Name: ML Titans**

**Project Definition: 3**

**Group Member's names:-**

**Kaushik Gohil, Richa Saraiya, Devanshi Rathod, Devasya Rajguru, Jay Golakiya**

## **Current Week's Work**

This week, we initiated work on improving trajectory analysis through the implementation of:

- **Spatio-temporal trajectory methods** – Focusing on analyzing movement patterns across both time and space dimensions to enhance tracking accuracy and consistency.
- **Graph-based methods** – Developing graph-based models to better understand the structure and relationships within trajectory data, enabling more effective trajectory mapping and merging.

These approaches aim to further refine the trajectory generation process, reduce inaccuracies, and improve the robustness of our tracking system.

## **Next Week's Plan**

Moving forward, we plan to work on:

- **Complete the spatio-temporal trajectory methodology** – Finalize the implementation and integration of the spatio-temporal approach for trajectory analysis.
- **Evaluate the developed methodology** – Conduct thorough testing and performance evaluation to assess accuracy, efficiency, and reliability of the implemented method.