**Project 15 User Ranking - Engagement**

**Overview, Goals, and Objectives**

One of the main goals in our SunCycle community is to keep riders motivated and engaged in a regular base. We aim to develop a ranking system to achieve that purpose and enhance engagement among riders. The system is going to rank the users based on how many points they achieve, which will be calculated based on their engagement. We will collect their activity data, prepare it, and use it to build the system. To give an example, a rider could earn ‘X’ number of points if they ride in two consecutive days. Also, this project aims to use machine learning to provide the users with their ranking projected path, based on their previous engagement, which is expected to be a purpose for motivation.

**Aims for Trimester**

* Researching on ranking systems (Mostly related to sports)
* Establishing clear worked out calculations of how and when users earn points
* Researching methods, technologies to be used, and implementing the algorithm (First implementation)
* Data collection and preparation for testing
* Documenting the whole process
* Researching possible machine learning implementations

**Deliverables**

Trimester 1 – 2023:

* Points ranking system based on users’ activity data (Working prototype)
* Short report on the mechanism of the system
* A handover document for the next team

Long-term:

* Detailed analysis of users’ engagement and rankings
* Machine learning features implementation (E.g., Projected path) based on previous research

**Project Members**

* Saeed Alnaqeeb – Lead; responsible for deliverables
* Mark Telley – Support.

**Week 6 Update**

**Completed Work:**

* Researching, gathering information and requirements needed
* Project Plan
* Upskilling in some areas needed for the work in upcoming weeks
* Exploring and examining a sample dataset
* Defining the basis of ranking the users

**Work in Flight:**

* Data analysis
* Upskilling in Python and SQL
* Reviewing ranking rules
* Ongoing documentation

**Planned Work for the upcoming weeks:**

* More upskilling needed
* Model development
* Data acquisition
* Implementation of the system

**Encountered Issues:**

* Lack of time due to some personal enrolment issues in the beginning of trimester
* Needed a lot of time for researching before starting any actual work