**Daily report**

Firstname: Aida

Lastname: Mahdavi Shakib

Field of activity: AI

Collaboration start date: 1404/04/17

Date of report: 1404/04/29

Number of report: 4

Part One: Study Phase

Part two: tasks

Duration: 6h



Tomorrow's work priorities: Implement a **custom combined loss function** for dual outputs (Active\_Damage + Type\_Damage)

1. Displayed and analyzed all feature and label columns
2. Identified redundant or irrelevant columns
3. Removed unnecessary and string-based columns (e.g., LAT, LONG, DateTime)
4. Applied **Label Encoding** to categorical columns
5. Applied **StandardScaler** to numerical features
6. Sliding Window Creation) Defined a window size of 30 time steps)
7. Built 3D input array X and 2D label array y
8. Data Splitting(Train set (70%) , Validation set (15%) , Test set (15%) )