I would like to use the DIjkstra's Algorithm in order to find the shortest path for the rover. Because I think for Musafir 2.0's navigation system it can efficiently compute the shortest path between the rover's current position and each potential target coordinate.

Dijkstra provides real-time, locally optimal routes that can adapt dynamically to environmental changes.

By computing the minimum distance from the rover's start to each destination and sorting accordingly I think we can ensure that Musafir 2.0 always takes the shortest feasible route toward its next mission objective.

Here's the code in python for Dijkstra's Algorithm:

https://github.com/KraKEn-bit/ALTAIR_RECruiT/blob/main/Week-2/Code/Dijkstra_Algorithm.py