SAFEST PATH FINDING ALGORITHMS ON STREET HARASSMENT PREVENTION

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Presentation of the team

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https://github.com/linasofi13/StreetHarassmentProyect_2022-2

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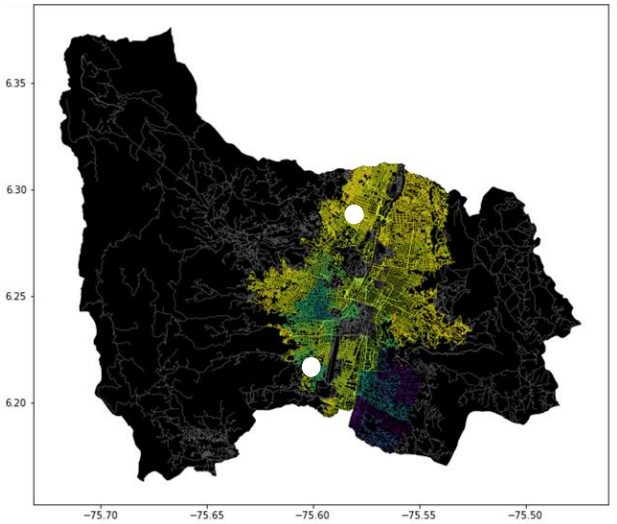
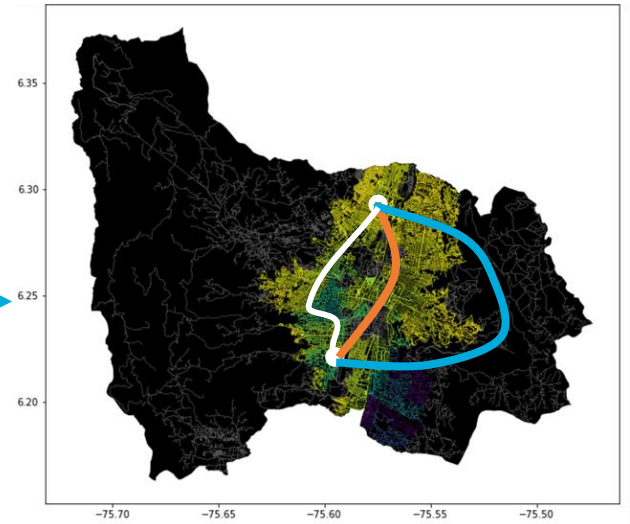
Problem Statement



Shortest path algorithm



Streets of Medellín, Origin and Destination

Three paths that reduce both the risk of harassment and distance

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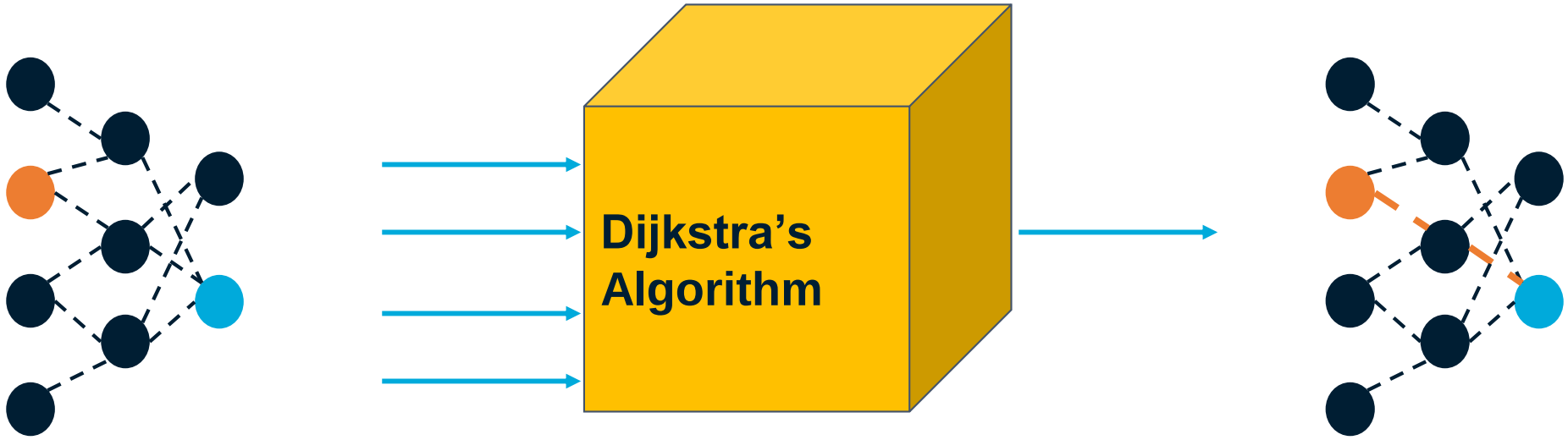
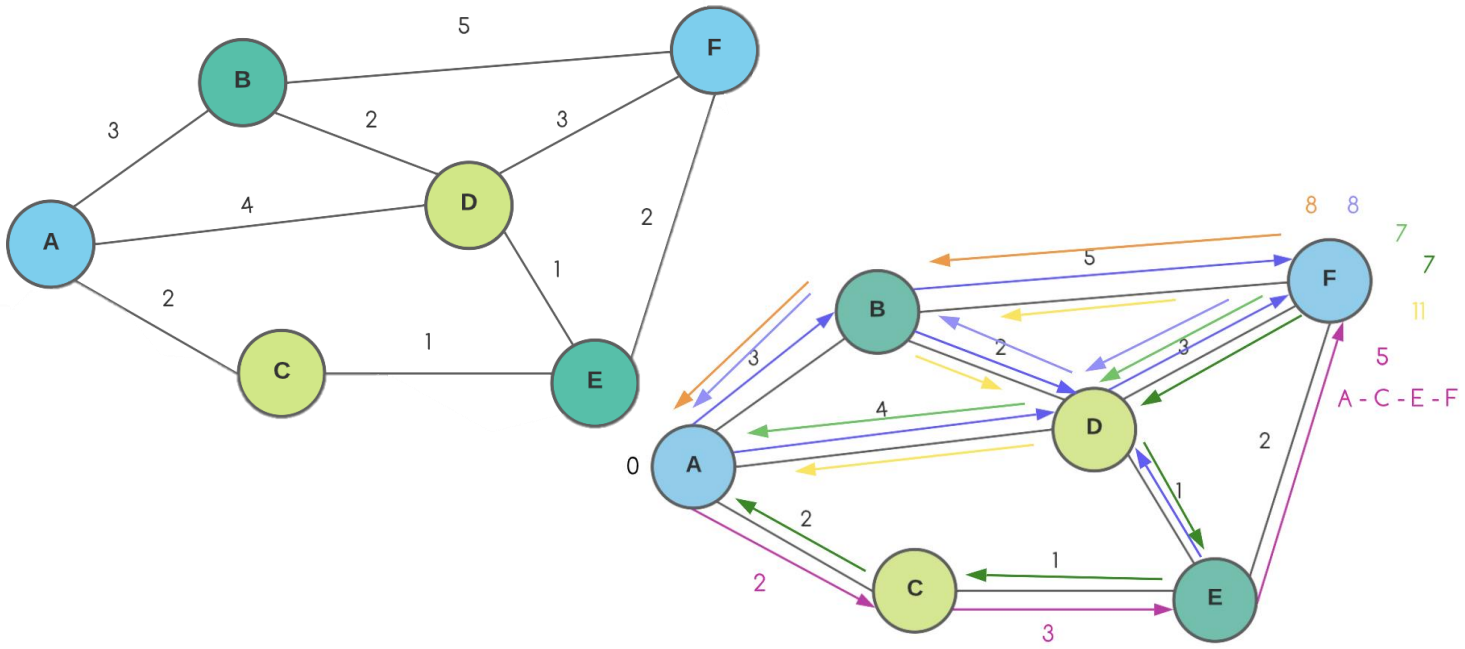
Solution Algorithm



Streets of Medellín, Origin and Destination

A path that reduces both distance and harassment

Explanation of the algorithm



Dijkstra’s Algorithm

Dijkstra’s Algorithm implementation for the shortest and safest path from A to F. The algorithm checks for the path with the minor total cost from the origin node to the final node. In this case is the path with a cost of 5.