DEVELOPMENT OF AN ALGORITHM FOR THE OPTIMIZATION OF PEDESTRIAN ROUTES BASED ON STREET HARASSMENT OF THE LGBTQ COMMUNITY

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Valentina Movil
Writer
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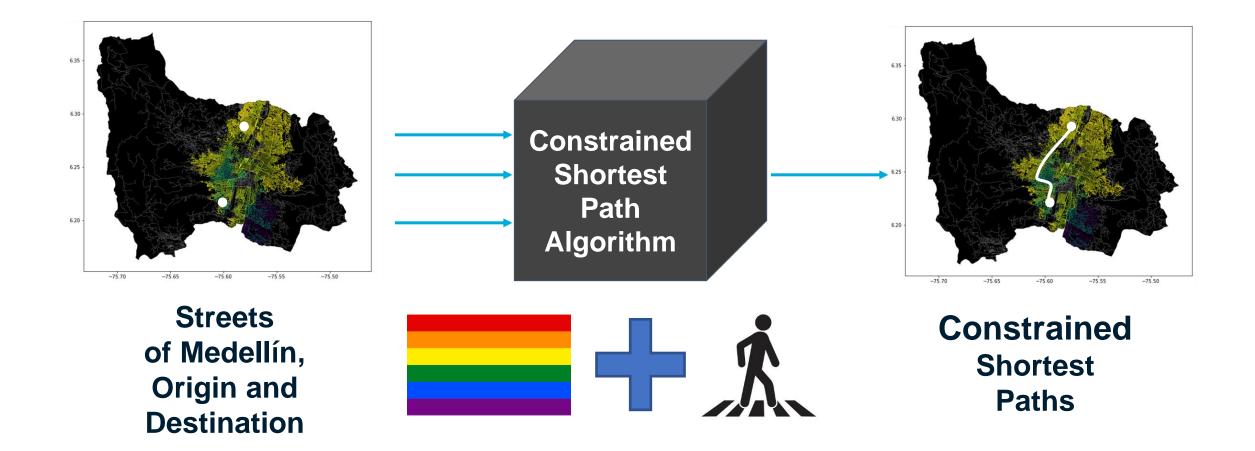**Felipe Gil**
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**Andrea
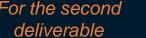Serna**
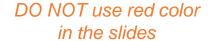Literature review
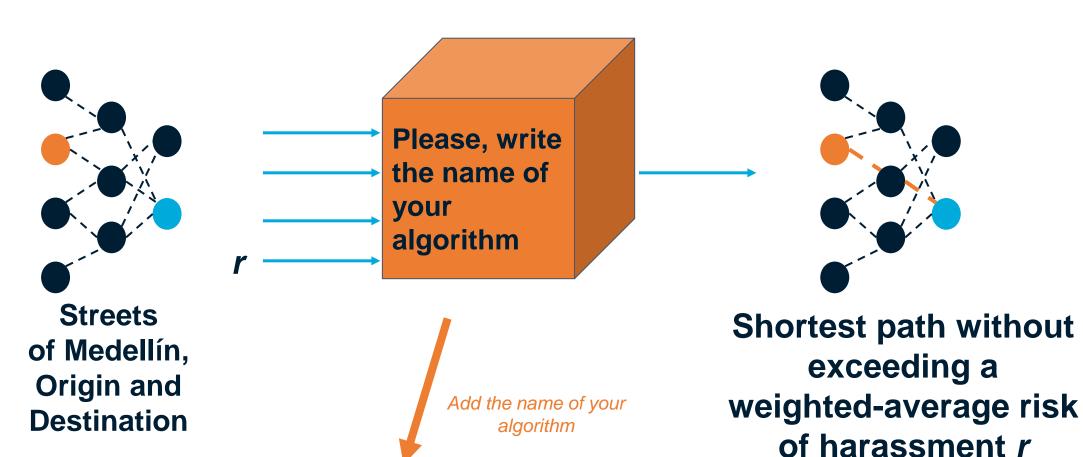
**Mauricio
Toro**
Data preparation
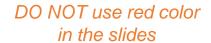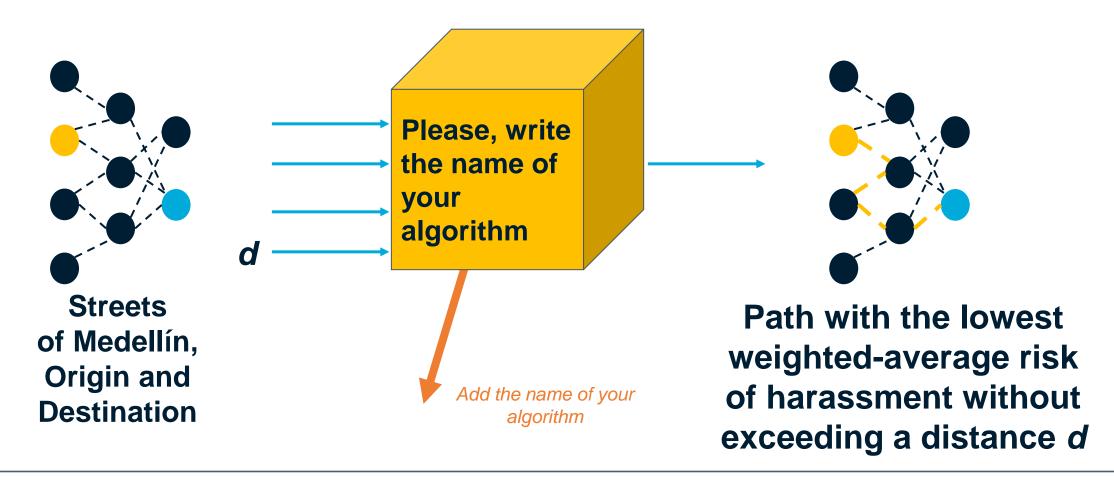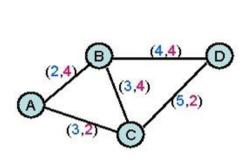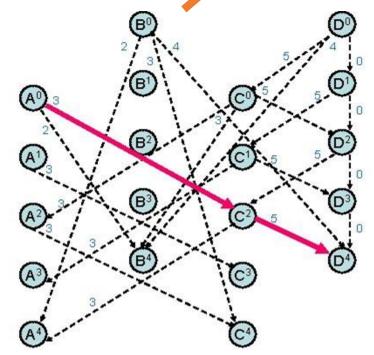
https://github.com/FelipeGilM/ST0245-002/tree/master/informe/entrega1

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**Streets
of Medellín,
Origin and
Destination**

**Constrained
Shortest
Path
Algorithm**

**Constrained
Shortest
Paths**

Algorithm Explanation

'Algorithm Name' for the Constrained Shortest Path
(In this semester, one could be DFS, BFS, Dijkstra, A… **please choose**)*.

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Algorithm Complexity

	Time Complexity	**Memory Complexity**
Algorithm name	$O(V^2*E*2^V)$	$O(V*E*2^E)$
Algorithm name (if you tried two)	$O(V*V)$	$O(E)$

Time and memory complexity of the algorithm name. V is…E is… (In this semester, one could be DFS, BFS, Dijkstra, A*). Please explain what do V and E mean in this problem. **PLEASE DO IT!**

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Shortest Path Results

Origin	Destination	Shortest distance (meters)	Without exceeding a weighted-average risk of harassment
Universidad EAFIT	Universidad de Medellín	??	0.84
Universidad de Antioquia	Universidad Nacional	???	0.83
Universidad Nacional	Universidad Luis Amigó	??	0.85

Shortest distance obtained without exceeding a weighted average risk of harassment *r*.

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Lowest Risk Results

Origin	Destination	Weighted-average risk of harassment	Without exceeding a distance (meters)
Universidad EAFIT	Universidad de Medellín	??	5000
Universidad de Antioquia	Universidad Nacional	???	7000
Universidad Nacional	Universidad Luis Amigó	??	6500

Lowest weighted-average risk of harassment obtained without exceeding a distance *d.*

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Execution Times

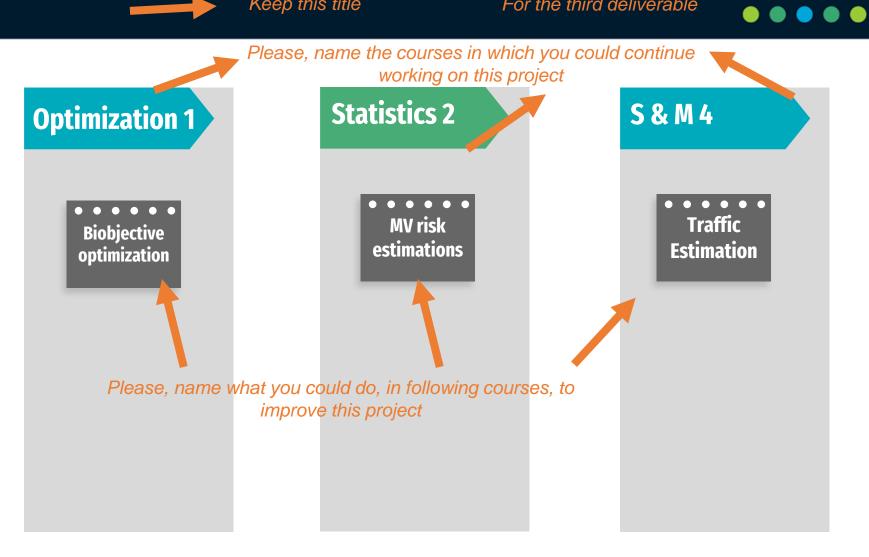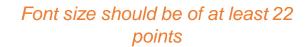**2 hours 51 minutes**

6 hours 51 minutes

8 hours 51 minutes
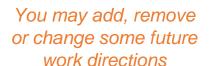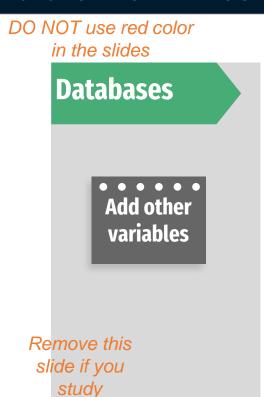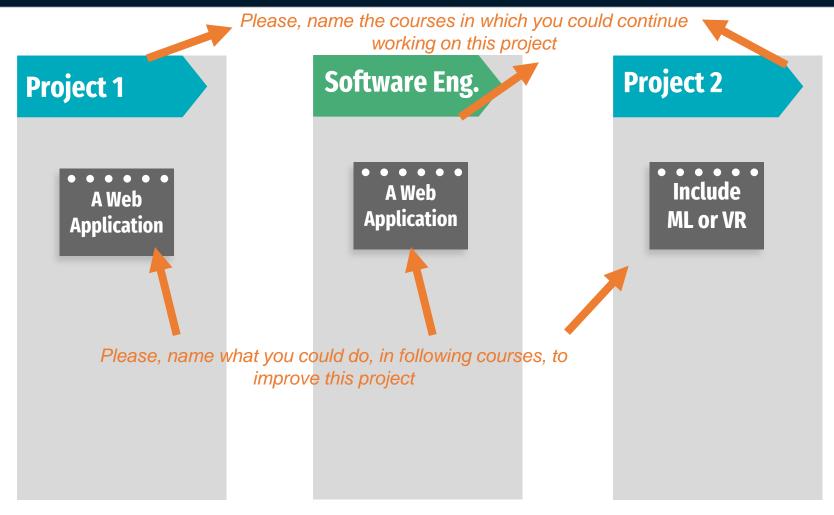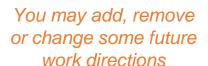
Report Accepted on OSF.IO

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OSF PREPRINTS

Energy and Storage Optimization In Precision Livestock

AUTHORS
Simón Marín Giraldo, Julian David Ramirez Lopera, Mauricio Toro, Andres Salazar Galeano

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ENERGY AND STORAGE OPTIMIZATION IN PRECISION LIVESTOCK FARMING

Julián Ramírez	Andrés Salazar	Simón Marín	Mauricio Toro
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ABSTRACT

paper will be centered around the classification of livestock. Primarily, by implementing an image recognition model that will determine whether an animal (in this case a cow) is sick or not.

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Please do not forget the acknowledgements to your scholarship (if you have one) Otherwise, for who pays your tuition fee

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