

#### **Presentation of the team**





Ricardo Gandica
Coding and
planning



**Sara Quintero**Project analysis



Andrea Serna Literature review



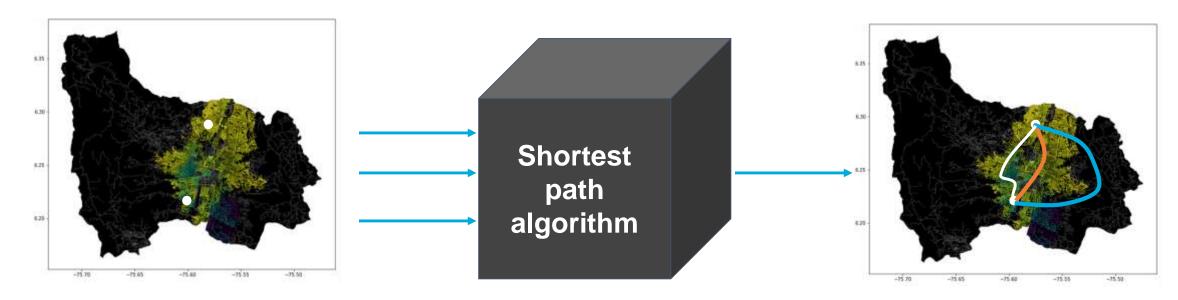
**Mauricio Toro**Data preparation





#### **Problem Statement**





Streets of Medellín, Origin and Destination

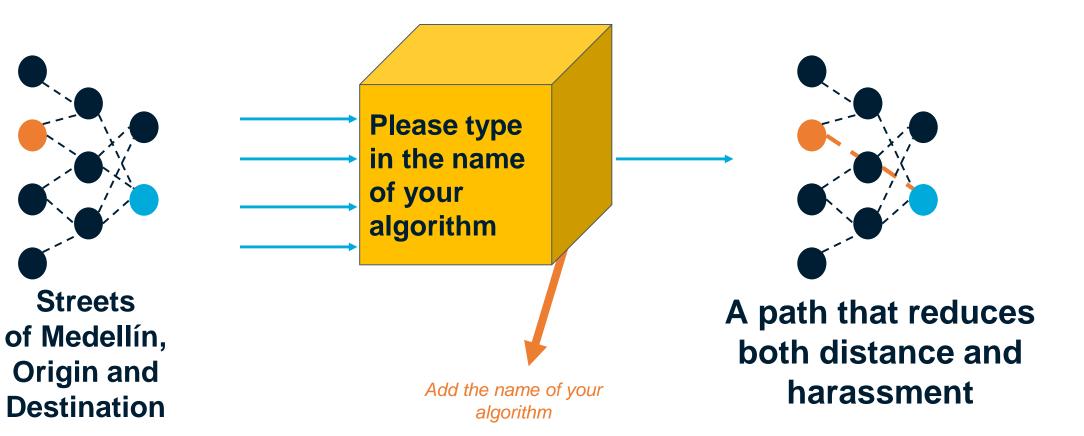
Three paths that reduce both the risk of harassment and distance





Keep this title

Do NOT use red on the slides.







#### **Explanation of the algorithm**

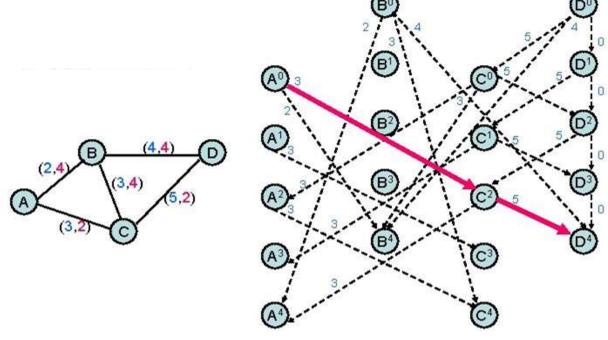
installment



Do NOT use red on the slides.

Design your own figures in Lucidchart or equivalent: https://www.lucidchart.com/

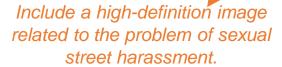
Use these colors for graphics





Name of the algorithm for the path that reduces both harassment and distance.

(In this semester, it could be DFS, BFS, Dijkstra, A\*... please choose).







#### **Complexity of the algorithm**





	Time complexity	Complexity of memory
Algorithm name	O(V <sup>2</sup> *E*2 <sup>V</sup> )	O(E!*V*E*E*2 <sup>E</sup> )
Algorithm name (if you have tried two)	O(V*V*E*E*E )	O(E!)

Time and memory complexity of the algorithm name. V is...E is... (In this semester, it could be DFS, BFS, Dijkstra, A\*). Please explain what V and E mean in this problem. PLEASE, it is not helpful to put 'n'.



Explain the tables in your own words

Create the table in Powerpoint. Do not copy pixelated screenshots of the white paper, please.

Do NOT use red on the slides.





Include a high-definition image related to the problem of sexual street harassment.



The font size must be at least 22 points.



#### First path minimizing d = ???

 $\bullet$   $\bullet$   $\bullet$   $\bullet$ 

Do NOT use red on the slides.



own words

Create the table in Powerpoint. Do not copy pixelated screenshots from the white paper, please.

Origin	Destination	Distance (meters)	Risk of harassment (between 0 and 1)
EAFIT University	National University	??	??

Distance and risk of harassment for the path that minimizes d = ??. Execution time of ?? seconds.

Explain the tables in your



### **Second path minimizing d = ???**



Do NOT use red on the slides.



Origin	Destination	Distance (meters)	Risk of harassment (between 0 and 1)
EAFIT University	National University	??	??

Distance and risk of harassment for the path that minimizes d = ??. Execution time of ?? seconds.

Explain the tables in your

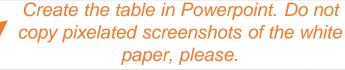
own words



#### Third path minimizing d = ???



Do NOT use red on the slides.



Origin	Destination	Distance (meters)	Risk of harassment (between 0 and 1)
EAFIT University	National University	??	??

Distance and risk of harassment for the path that minimizes d = ??. Execution time of ?? seconds.

Explain the tables in your

own words

The font size must be at least 22 points.



# Visual comparison of the three paths



Use a library to draw the map and plot the three roads between Eafit and Universidad Nacional. For example, use geopandas, pydeck or google maps.





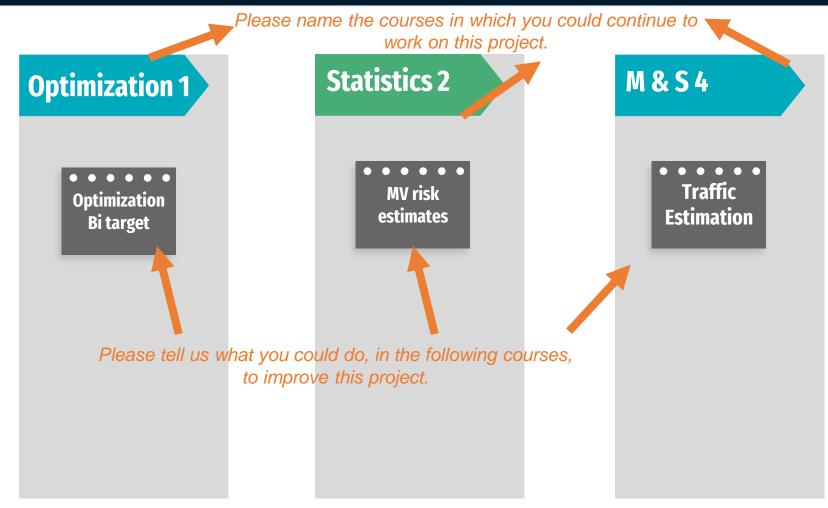


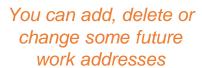




. . . . . . Other risk estimates

Delete this if you study Informatics engineering



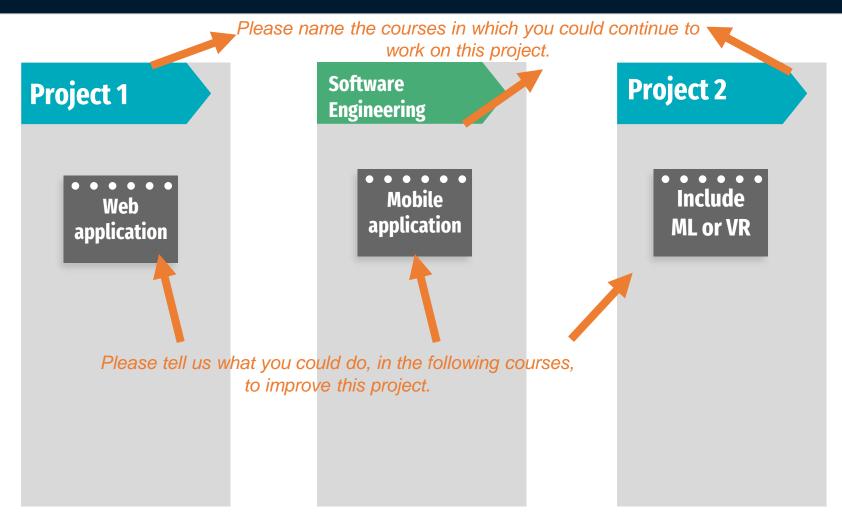








Delete this if you study Mathematics Engineering









• • • •

#### Report accepted in OSF.IO





Do NOT use red on the slides.

Delete this slide if your report was not submitted to OSF.

This is an example screenshot from a previous report

Universidad Eafit

Colombia

smaring l@eafit.edu.co

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

This is an example of a citation from a previous report

Include the report citation in OSF PREPRINTS and the link. No, not in OSF projects, it is in OSF Preprints.

Julián Ramírez, Andrés Salazar, Simón Marín, Mauricio Toro. Energy and Storage Optimization in Precision Livestock Farming. Technical Report, Universidad EAFIT, 2021. https://doi.org/10.31219/osf.io/du8yt

Include a screenshot of your published report on osf.io and remove the circle



Universidad Eafit

Colombia

asaluza5@eafit.edu.co





Universidad Eafit

Columbia

jdrumirezka eafit edu co

ABSTRACT

OSFPREPRINTS -



Universidad Eafit

Colombia

mtorobe@eafit.edu.co



Do NOT use red on the slides.

Don't forget your scholarship acknowledgements (if you have one) For others, for those who pay your tuition fees

# THANK YOU!

## With the support of

The first two authors were supported by the Sapiencia grant, financed by the municipality of Medellín. All authors are grateful to the Vice Rector's Office for Discovery and Creation, Universidad EAFIT, for their support in this research.

The font size must be at least 22 points.