



DISAPPEARANCES AND HOMICIDES: IDENTIFYING PATTERNS AND CONNECTIONS

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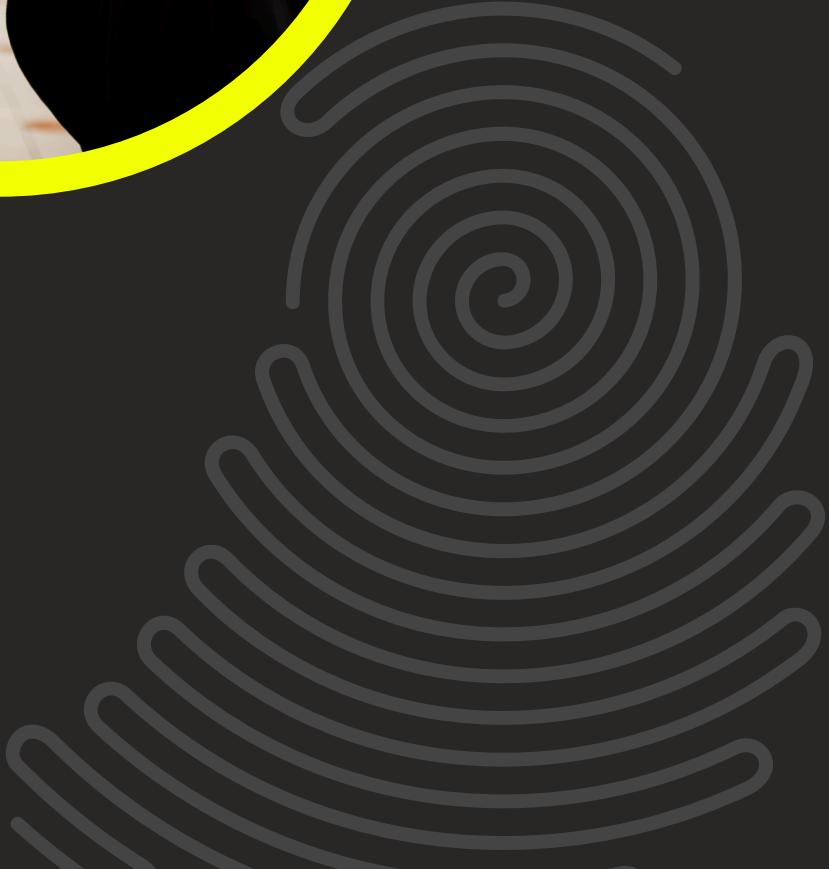
Index

- **DONE**
 - O1 Context of the problem
- **TO DO**
 - O2 Goals
 - O3 Business Problem
 - O4 Technical Problem Description
 - O5 Components
 - O6 Database Review

Context of the problem

Violence in Colombia:

- Persistent problem deeply affecting society.
- Homicides and disappearances: extreme manifestations of this violence.
- Understanding these dynamics is crucial for designing effective public policies.



Goals

General goal

Consolidate databases that integrate demographic factors with incidences of disappearances and homicides to improve the accuracy of predictions and the effectiveness of interventions in high-risk areas.

Specific goal

- Develop a predictive learning model of matches for the future based on the data to find the best pipeline.
- To compare the frequency of violent deaths in urban and rural areas and their relationship with the demographic characteristics of each type of area.
- To address how the educational level of different demographic groups influences the incidence of violent deaths.
- Identify the most insecure areas and implement a solution to reactivate "foreign" trade.



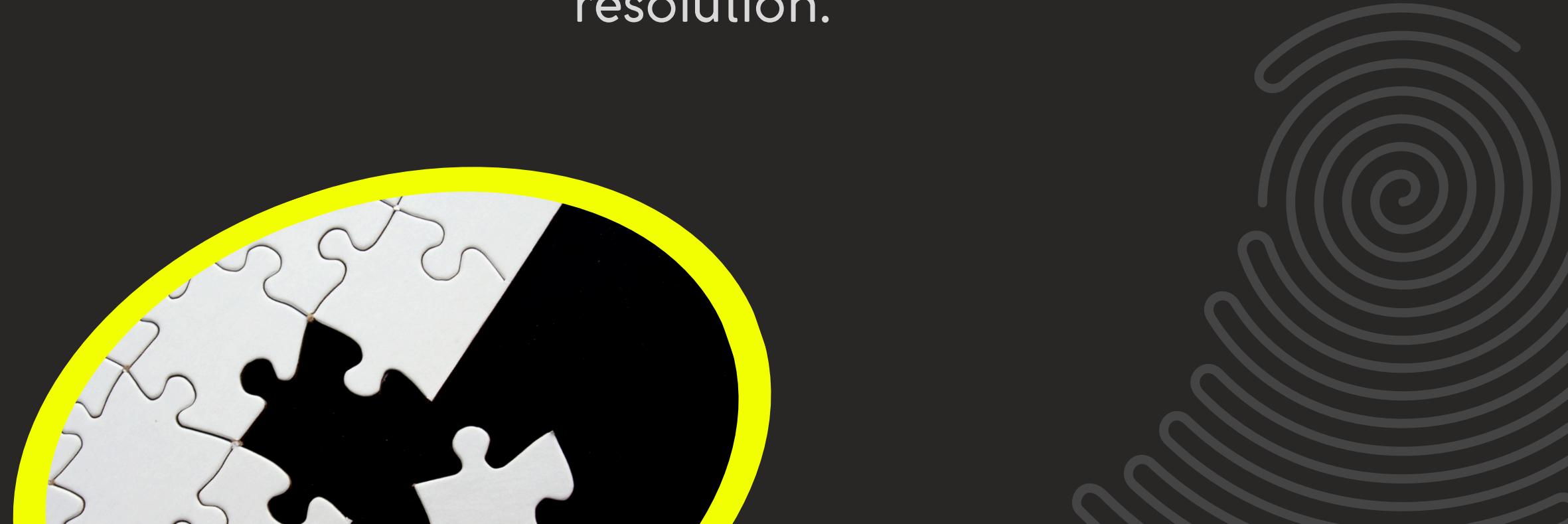
Business Problem

Business Problem

- High rates of homicides and disappearances.
- Undermines public safety and community trust.
- Destabilizes regions.
- Drives up costs and lowers quality of life.

Business Goal

- Implement advanced predictive analytics system.
- Enhance risk identification.
- Optimize resource allocation.
- Improve response and case resolution.

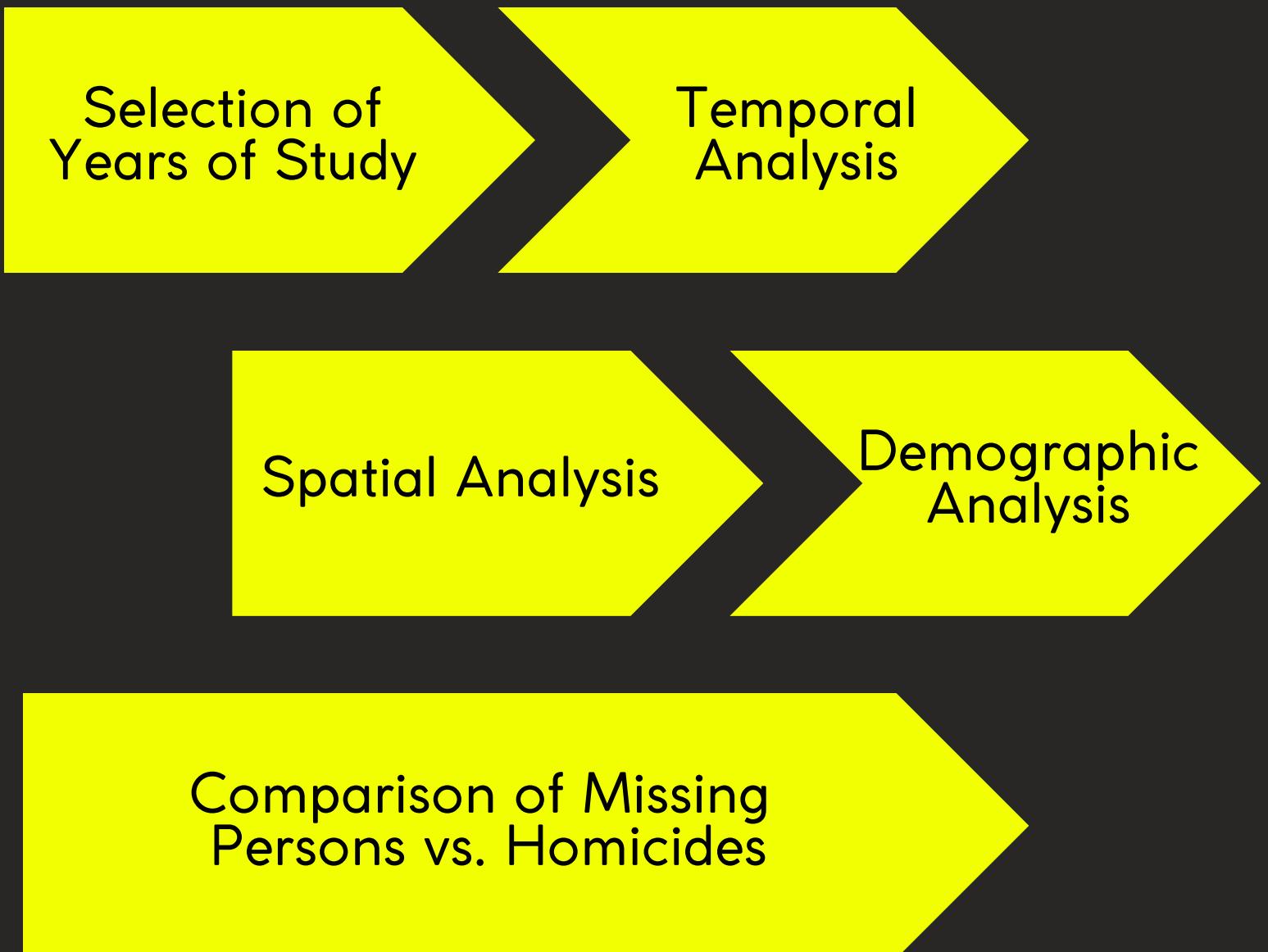


Technical Problem Description

It consists of developing a predictive analysis to identify patterns and risk factors associated with homicides and disappearances, predicting and preventing future incidents with the help of machine learning.



Components



- O1
 - Define years of study.
 - Calculate average incidence
- O2
 - Identify trends
- O3
 - Urban versus rural comparison:
 - Frequency of violent deaths and demographic characteristics.
 - Geolocation of incidents.

O4

Demographic characteristics:

- Assess how age, gender, education, and income influence violent deaths.

O5

Educational level:

- Analyze the relationship between education and violent death rates.

Comparative analysis:

- Compare missing persons and homicides to find relationships or differences.

Risk factors:

- Identify factors linked to higher risks of disappearance vs. homicides.

O6

Database Review

Variables:

Missing persons (7 databases)

Homicides (8 databases).

Objective:

Analyze homicides and disappearances in Colombia (2016-2022).

Identify patterns and trends in urban and rural settings.

Goal:

Inform effective security strategies.

Expand data sources to improve predictive models.



Descripción de base de datos Desaparecidos



THANK YOU!!!
