Project I presentation

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etsinf

UPV

Domain

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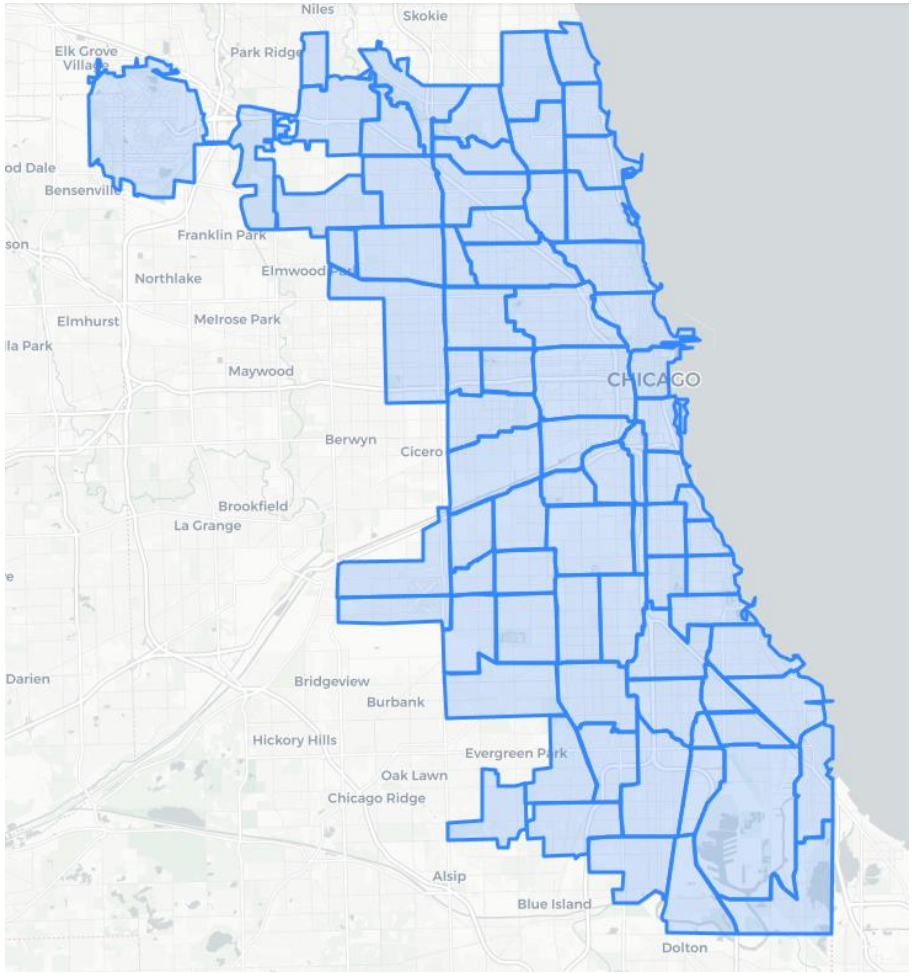
CHICAGO POLICE DEPARTMENT

- Reorganize the work of the Chicago Police Department according to objective criteria
- 77 community areas
- 23 Police stations and 23 districting areas
- 5 Police areas



as long as we're reasonable in what objective function we define it will be fine

Available data

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Attribute	Description	Domain
station_name	Name and address of the station	String
community_area	Name of the Community Area where the station is located	String
longitude	Length of the station's coordinate	Float
latitude	Latitude of the station coordinate	Float

Police stations

Attribute	Description	Domain
ID	Numerical identifier of the community area	Integer
community_area	Name of the community area	String
population	Inhabitants of the area	Integer
area	Area surface in squared km	Float
neighbours	List of community areas with which it delimits	List

Community areas

neighbourhood

Available data

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Attribute	Description	Domain
station_name	Name of the police station	String
distances	List of 77 floating point values with the distance in seconds	List

Distances from station to community areas

Attribute	Description	Domain
type	Type of crime occurred (31 types)	String
arrest	If arrest occurred	Boolean
domestic	If considered domestic crime	Boolean
community_area	Community area where the crime took place	String
longitude	Length of the coordinate	Float
latitude	Latitude of the coordinate	Float

Crimes database

Submission requirements

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code commented (not comment per line but block comments) of everything we do (exploration...)
some minimal documentation of the python file or notebook

- All developed code, commented and working
- Report. 8 pages using IEEE template
  - Abstract
  - Introduction
  - Proposed model
  - Implementation details
  - Experiments
  - Conclusions
  - References

research on what has been done, materials we have consulted not to go blidnly

Assessment

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Aspect	<50%	50-69%	70-89%	90-100%
Style, organization and clarity (1 mark)	The document is not organized in the proposed sections There is no coherence in ideas and explanations References are not present.	There is a certain coherence in ideas and explanations Missing sections or inadequate organization	There is a certain coherence in ideas and explanation No missing sections Adequate use of figures and tables	Ideas and explanations are coherent No missing sections Adequate use of figures and tables
Model (4 marks)	No formal model or plagued with errors No significant original ideas or copied	Correct and complete definition of two:: Variables Constraints Objective function The model illustrates insights extracted from the dataset The model has some significant original ideas	Correct and complete definition of all elements The model incorporates insights extracted from the dataset The model has mostly original aspects and ideas	Correct and complete definition of all elements The model is truthful to requirements and insights from data The model is completely original
Coding (3 marks)	Incomplete code, non-functional, no merit or plagiarism	The code implements part of the model and has merit Code partially explained in report	The code implements the model and has merit Code explained in report	The code implements the model and has merit Code explained in report Documented code
Experiments (2 marks)	No experiments, no merit, or non-functional	Provided functional code for experiments	Provided functional code for experiments Experimental results explained in report	Provided functional code for experiments Experimental results explained in report Correct methodology for analysis

Thank you!

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