

Predicting Residential Area For Education





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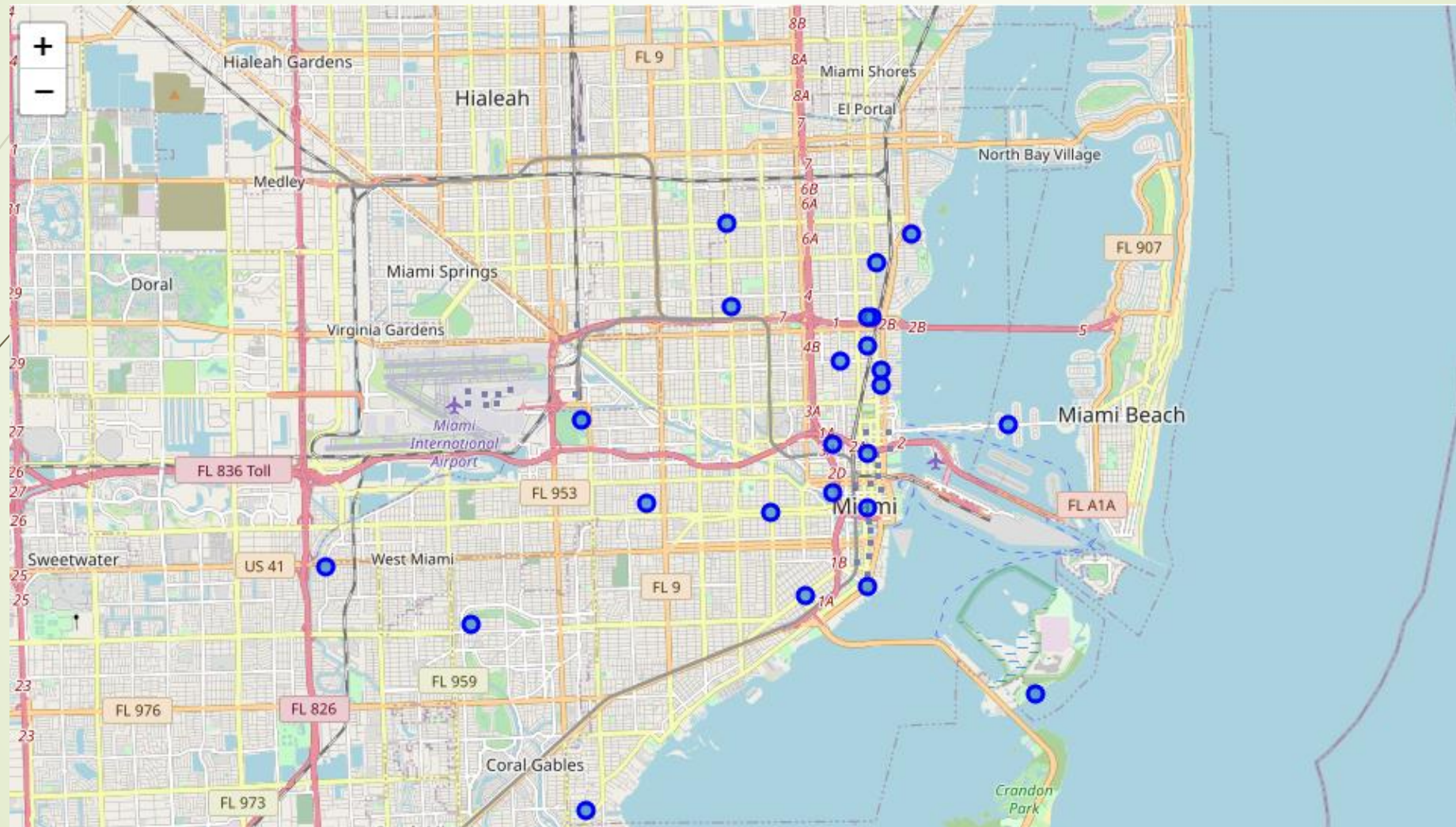
- In this project we will try to find an optimal location for a better education options available in Miami. Specifically, this report will be targeted to stakeholders interested in selecting a **residence location** in **Miami**, Florida, USA which has maximum **Education institution**.
- There are lots educational institutes available in Miami and we will try to detect **locations that has more options for Education**.
- We will use our data science powers to generate a few most promising neighborhoods based on this criteria. Advantages of each area will then be clearly expressed so that best possible final location can be chosen by stakeholders.



Data acquisition and cleaning

- Based on definition of our problem, factors that will influence our decision are:
- * Number of existing education institution available in the neighborhood
- Following data sources will be needed to extract/generate the required information:
- * Neighborhoods in Miami and its Co-ordinates.
- This data will be extracted from the following web page.
- https://en.wikipedia.org/wiki/List_of_neighborhoods_in_Miami
- * Number of educational institutes and their type and location in every neighborhood will be obtained using **Foursquare API**

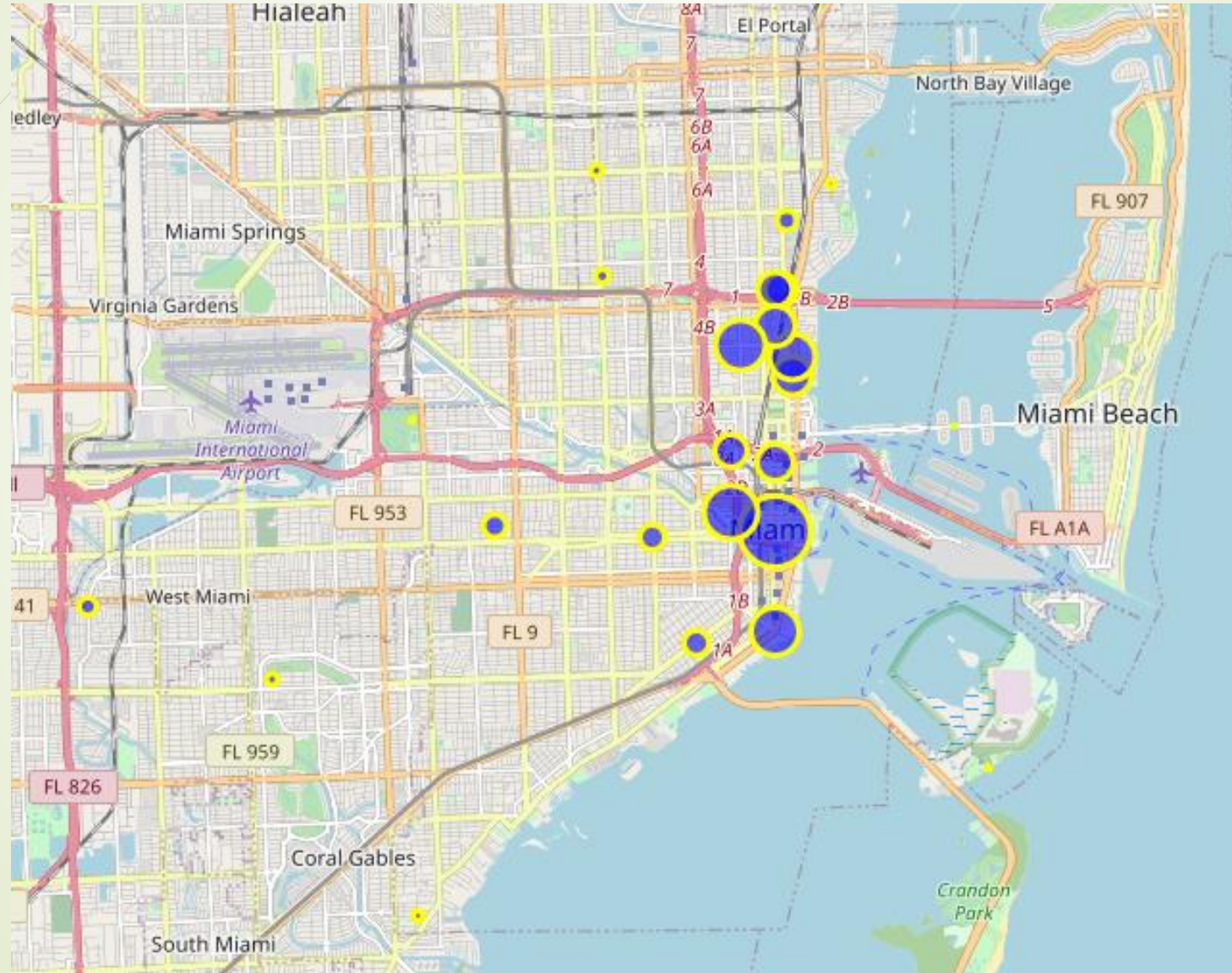
Miami Neighborhoods



Top 10 Neighborhood based on Educational Density

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue	NumberOfInstitutes
0	Downtown	School	Elementary School	Language School	Preschool	Music School	General College & University	Private School	Church	Daycare	High School	37
1	Lummus Park	School	Elementary School	High School	Music School	General College & University	Language School	Private School	Church	Daycare	Middle School	28
2	Wynwood	School	Elementary School	High School	Language School	Preschool	Art Gallery	College Arts Building	Miscellaneous Shop	Adult Education Center	Playground	26
3	Brickell	School	Preschool	Language School	Private School	Nursery School	Church	Elementary School	General College & University	Middle School	Music School	25
4	Edgewater	School	Elementary School	High School	Language School	Miscellaneous Shop	Art Gallery	College Arts Building	University	Adult Education Center	Playground	24
5	Midtown	School	Elementary School	High School	Language School	Preschool	Art Gallery	College Arts Building	Miscellaneous Shop	Adult Education Center	Playground	21
6	Arts & Entertainment District	School	Elementary School	Language School	High School	Miscellaneous Shop	Art Gallery	University	Adult Education Center	Preschool	Playground	20
7	Park West	School	High School	Elementary School	Language School	Daycare	General College & University	University	Art Gallery	Business Service	Church	19
8	Design District	School	Elementary School	High School	Language School	Art Gallery	College Arts Building	Preschool	Miscellaneous Shop	Golf Course	Business Service	18
9	Buena Vista	School	Elementary School	High School	Language School	Art Gallery	College Arts Building	Preschool	Miscellaneous Shop	Golf Course	Business Service	17

Neighborhoods based on Educational Density





Conclusion

By considering data and map we can see that area near to Midtown neighborhood is most suitable for requirement.

