## ALLEGHENY COUNTY (PITTSBURGH) - NEIGHBORHOOD AFFORDABILITY

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## INTRODUCTION

Pittsburgh remains one of the most affordable cities in the United States. When families are looking for an area to purchase a home, they use many factors such as school district rating, affordability, commute time, walkability, and the proximity to venues like restaurants, parks or libraries. I will use various datasets to evaluate the most affordable neighborhood in Pittsburgh based on a family with children with a budget of less than \$400,000 for a home.

I intend to answer the following questions:

- Which neighborhoods have the best school district? (Student success, test scores, etc.)
- Are there parks, libraries and other venues nearby?
- Will a family who wants a high performing school district have to live far away from the city?

## DATA ACQUISITION AND CLEANING

- Data Section
  - o Foursquare API for school location and neighborhood classification

crossStreet distance formattedAddress labeledLatLngs name categories address cc city country [450 30th Street, [('label': 'display', 'lat': 40.455518 -79.970753 Skatepark At United Skate Park 450 30th Street US Pittsburgh 647 Pittsburgh, PA West Penn States 15219. United... Agnes R Katz [('label': 'display', 'lat': 40.443104 -80.000371 [7th Street (Penn 2769 Plaza 7th Street US Pittsburgh Penn Ave Ave), Pittsburgh, States ("Eyeball Park") Pittsburgh 3395 40.441246 -80.007942 NaN Pl. Pittsburgh, PA States Park Provincial Park 40.44124588473702... 15222, United... Robert E. adelaide st. [Adelaide Street, Adelaide Street. [{'label': 'display', 'lat': and 40.454621 -79.958904 US Pittsburgh 1558 Pittsburgh, PA Memorial Pittsburgh, PA 40.45462145752845... States milwaukee [1000 Ross Park [{'label': 'display', 'lat': 40.543806 -80.007995 Apple Ross 1000 Ross Park in Ross Park Electronics United US Pittsburgh Mall Drive (in Ross 40.543806, 'Ing':... Mall Drive Store States Park Mall)... Residential [5250 Liberty [('label': 'display', 'lat': 40.456758 -79.940575 5250 Liberty US Pittsburgh Building 3021 Avenue, Pittsburgh, City 40.4567578, 'Ing'... PA 15224, Un... Condo) 2005 [2005 Beechwood

Figure 1 Allegheny County Parks (Foursquare)

Allegheny County Real Estate Transactions - <a href="https://data.wprdc.org/dataset/real-estate-sales">https://data.wprdc.org/dataset/real-estate-sales</a> which will give home sales for the last seven years

Figure 2 Allegheny County Real Estate Sales

	PROPERTYCITY	MUNIDESC	SALEDATE	PRICE	SALEDESC
24	PITTSBURGH	4th Ward - PITTSBURGH	4/23/2013	157000.0	VALID SALE
34	PITTSBURGH	Penn Hills	8/30/2016	123944.0	VALID SALE
103	ALLISON PARK	Hampton	5/24/2012	135000.0	VALID SALE
104	MONROEVILLE	Monroeville	5/24/2012	150000.0	VALID SALE
176	PITTSBURGH	Castle Shannon	6/4/2012	99900.0	VALID SALE
218	MC KEESPORT	Liberty	7/20/2018	68000.0	VALID SALE
230	PITTSBURGH	O"Hara	6/1/2015	267000.0	VALID SALE
294	MARS	Pine	4/10/2013	97000.0	VALID SALE
316	PITTSBURGH	O"Hara	6/4/2012	72450.0	VALID SALE
377	CORAOPOLIS	Moon	9/27/2012	142000.0	VALID SALE
	0.500000		0.00.000.40		

 School Digger API for school rankings and performance metrics https://www.schooldigger.com/go/PA/county/Allegheny/search.aspx

Figure 3 Ranked School Districts

1	s.state	address.stateFull	address.street	address.zip	address.zip4	 privateHours	privateOrientation	rankHistory	rankMovement	schoolLevel	schoolName
	PA	Pennsylvania	738 Dorseyville Rd	15238	1102	 None	None	[{'year': 2018, 'rank': 1, 'rankStars': 5, 'ra	1	Elementary	Fairview Elementary School
	PA	Pennsylvania	2401 Rochester Rd	15143	8606	 None	None	[{'year': 2018, 'rank': 2, 'rankStars': 5, 'ra	1	Elementary	Franklin Elementary School
	PA	Pennsylvania	165 Crescent Dr	15228	1045	None	None	[{'year': 2018, 'rank': 3, 'rankStars': 5, 'ra	-2	Elementary	Markham Elementary School
	PA	Pennsylvania	41 Forest Road	15015		 None	None	[{'year': 2018, 'rank': 4, 'rankStars': 5, 'ra	3	Elementary	Bradford Woods Elementary School
	PA	Pennsylvania	171 Sunrise Dr	15642	8838	 None	None	[('year': 2018, 'rank': 5, 'rankStars': 5, 'ra	4	Elementary	Sunrise Elementary School
								ll'vear'			

o School District Tax Rates - <a href="https://apps.alleghenycounty.us/website/millsd.asp">https://apps.alleghenycounty.us/website/millsd.asp</a> . This will be a factor in affordability.