Intergenerational Families in Kings Counties

Beau Morton





Intergenerational Relationships in Black Families

Black families face intergenerational challenges, due to systemic oppression that still impacts families today. Redlining, racism, discrimination, forced integration and segregation, and divestment has left black communities without the resources they need to survive, thrive, and build wealth.

LAST EDITION THE DULUTH HER

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THREE CENTS.

THREE NEGROES LYNCHED IN DULUTH

POLICE FORBIDDEN TO USE THEIR FIREARMS TO WITHHOLD RIOTERS

Several Officers Injured by IMPROMPTU GALLOWS Bricks and Other Missiles Thrown by Mob.

Force Totally Inadequate to Handle Situation, Says Murnian.

Believes Order Not to Use Arms Saved Many From Injury.

EXCLUSION

WHERE THREE NEGROES' LIVES ARE CHOKED OUT



WHERE HANGING TOOK PLACE

NOVEL PLAN IS PROPOSED

OF ASIATICS Have Harding Name Mem-Flection.

SOME RESULTS OF ASSAULT ON POLICE HEADQUARTERS BY FRENZIED MOB WHICH LYNCHED THREE NEGROES TUESDAY NIGHT; INTERIOR OF BUILDING IS WRECK



NFURIATED MOB TAKES THREE NEGROES FROM POLICE STATION HANGING THEM TO LIGHT POLE

Thousands Gather in Streets Tuesday Evening, Force Way Into Jail, Smash Bolts and Bars and Drag Negroes to Their Doom.

Dairch had the first lymbing in it deventure, the such west operate to efficient of his circles theory had spine to the force of the circles. A such estimated anywhere from the wave being held. A such estimated anywhere from the wave being held. Let be 10 miles of the 1

GRAND JURY IS CALLED TO FIX RESPONSIBILITY FOR HANGING OF MEN

NEGROES ATTEMPTED ASSAULT WHILE SHOW WAS AT SOUTH BEND

Negroes employed by the same circus as those who were lynched in Duluth last night following an in Duluth last night following an attack on a white girl, attempted to assault Helen Penrod of South Bend when the show was in this city June 7. The assailants of the South Bend girl escaped, being hidden by companions, the police said here to-

Berenner and a service and a s

Mob Seeking Vengeance for Assault on Girl Accomnlishes Its Aim.

Thousands Watch Exciting Scenes From Early Evening Until Midnight.

Judges of District Court Issue Order Calling for Investigation.

TROOPS SENT TO DULUTH BY

Acts in Response to Telegraphic Request by Sheriff Magie.

Two Companies Arrive at 8 A. M. From Fort Snell-

Accompanied by Adjt.-Gen. Rhinow and Other Officers.

Answering & telegraphed call for an

The lives of three human beings were snuffed out, several policemen injured and police headquarters wrecked as the remade on a West Duluth young

woman by negro employes of the filled Superior street near the police station all evening, culminating in an attack on headquarters and seizing of the three negroes who were taken to the corner of East First street and Second avenue and there strung

(National Geographic, 2020)

Overview

National Association for Real Estate Brokers (NAREB) A black led organization that focuses on bringing together the minority professionals in the real estate industry to promote the meaningful exchange of ideas about our business and how best to serve their clientele.



Overview

How can home renovations increase the estimated value of homes in preparation for an influx of black intergenerational families in King County, WA?

Data Preparation and Understanding

- 'Zipcode' was dropped as a variable
- Categorical variables were dropped, and dummy variables were created
- Regression models were created
- Homoscedasticity, normality, and multicollinearity tests were performed to confirm assumptions for linear regressions

Model 1

OLS Regression Results

| Dep. Variable: | price | and the second second | 0.493 |
|-------------------|------------------|-----------------------|---------------------|
| Model: | OLS | Adj. R-squared: | 0.493 |
| Method: | Least Squares | F-statistic: | 7003. |
| Date: | Sun, 17 Apr 2022 | Prob (F-statistic | 0.00 |
| Time: | 20:58:24 | Log-Likelihood: | -3.0005e+05 |
| No. Observations: | 21597 | AIC: | 6.001e+05 |
| Df Residuals: | 21593 | BIC: | 6.001e+05 |
| Df Model: | 3 | | |
| Covariance Type: | nonrobust | | |
| | coef std err | t P> t | [0.025 0.975] |
| Intercept -3.815 | e+04 5252.893 | -7.262 0.000 | -4.84e+04 -2.79e+04 |
| sqft_living 297.9 | 9354 4.483 | 66.458 0.000 | 289.148 306.723 |
| sqft above -18.4 | 4232 4.479 | -4.113 0.000 | -27.202 -9.644 |
| bathrooms -3972.1 | 1769 3545.059 | -1.120 0.263 | -1.09e+04 2976.400 |
| Omnibus: | 14748.993 | Durbin-Watson: | 1.982 |
| Prob(Omnibus): | 0.000 | | 538245.600 |
| Skew: | 2.806 | | 0.00 |
| Kurtosis: | 26.804 | Cond. No. | 9.59e+03 |
| | | | |

Notes:

- [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [2] The condition number is large, 9.59e+03. This might indicate that there are strong multicollinearity or other numerical problems.

Model 2

Den Variable:

OLS Regression Results

price R-squared:

0.507

| peb. variabl | | | | PLIC | e k-sq | uareu. | | | 0.307 |
|--------------|------------|-------|-------|--------|---------|----------|---------|-----------|-------------|
| Model: | | | | OL | S Adj. | R-squar | red: | | 0.507 |
| Method: | | I | Least | Square | s F-st | atistic | : | | 7398. |
| Date: | | Sun, | 17 A | pr 202 | 2 Prob | (F-stat | cistic) | : | 0.00 |
| Time: | | | 2 | 1:06:3 | 1 Log- | Likeliho | ood: | | -2.9976e+05 |
| No. Observat | ions: | | | 2159 | 7 AIC: | | | | 5.995e+05 |
| Df Residuals | s : | | | 2159 | 3 BIC: | | | | 5.996e+05 |
| Df Model: | | | | | 3 | | | | |
| Covariance 1 | | | | nrobus | | | | | |
| | | | std | | t | | - t | | 0.975] |
| Intercept | 7.704e+ | 04 | 7684. | 108 | 10.026 | 0 . | .000 | 6.2e+04 | 9.21e+04 |
| bedrooms | -5.775e+ | 04 | 2324. | 412 | -24.846 | 0. | .000 | -6.23e+04 | -5.32e+04 |
| sqft_living | 313.83 | 04 | 2. | 467 | 127.187 | 0. | .000 | 308.994 | 318.667 |
| floors | 3476.43 | | | 340 | | 0. | | | 1.03e+04 |
| Omnibus: | | ===== | | 415.70 | | in-Watso | | | 1.985 |
| Prob(Omnibus | 5): | | | 0.00 | 0 Jarq | ue-Bera | (JB): | | 491526.502 |
| Skew: | | | | 2.73 | 3 Prob | (JB): | | | 0.00 |
| Kurtosis: | | | | 25.72 | 3 Cond | . No. | | | 1.04e+04 |
| ========= | | ===== | | | | ====== | | ======= | ======== |

Notes:

- [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [2] The condition number is large, 1.04e+04. This might indicate that there are strong multicollinearity or other numerical problems.

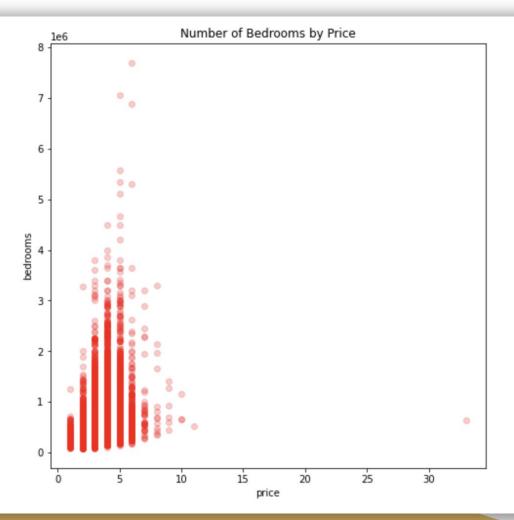
Model 3

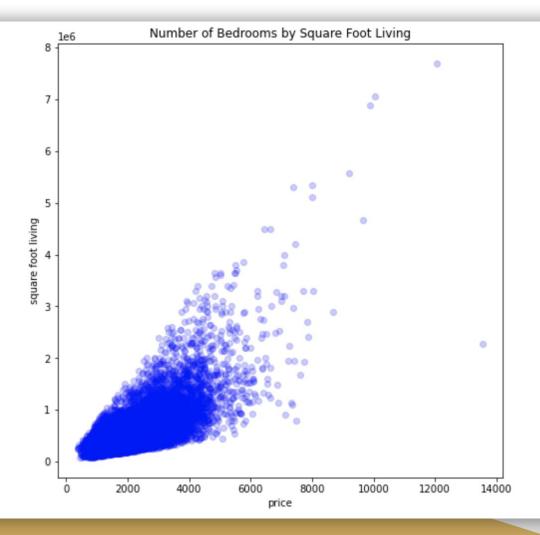
OLS Regression Results

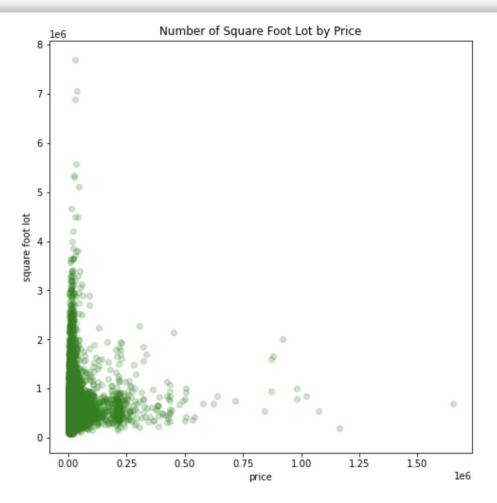
| Dep. Variabl Model: Method: Date: | .e: | Least Squ Sun, 17 Apr | | F-stat | -squared: | : | 0.509 0.509 7451. 0.00 |
|--|----------|--------------------------|------|--------|-------------|-----------|---------------------------------|
| Time: | | 22:1 | 5:14 | Log-Li | kelihood: | | -2.9972e+05 |
| No. Observat | ions: | 2 | 1597 | AIC: | | | 5.994e+05 |
| Df Residuals | :: | 2 | 1593 | BIC: | | | 5.995e+05 |
| Df Model: | | | 3 | | | | |
| Covariance T | 'ype: | nonro | bust | | | | |
| | CO | ef std err | | t | P> t | [0.025 | 0.975 |
| Intercept | 8.424e+ | 04 6637.291 | 1 | 2.692 | 0.000 | 7.12e+04 | 9.72e+04 |
| bedrooms | -5.959e+ | 04 2327.075 | -2 | 5.605 | 0.000 | -6.41e+04 | -5.5e+04 |
| sqft_living | 318.63 | 33 2.383 | 13 | 3.727 | 0.000 | 313.963 | 323.304 |
| sqft_lot | -0.38 | 47 0.043 | - | 8.922 | | | -0.300 |
| Omnibus: | | 14308 | .034 | Durbin | -Watson: | | 1.985 |
| Prob(Omnibus | :): | 0 | .000 | Jarque | -Bera (JB): | | 477721.465 |
| Skew: | | 2 | .710 | Prob(J | В): | | 0.00 |
| Kurtosis: | | 25 | .394 | Cond. | No. | | 1.73e+05 |
| | | | | | | | |

Notes:

- [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [2] The condition number is large, 1.73e+05. This might indicate that there are strong multicollinearity or other numerical problems.







Conclusion

The third model has showed square foot lot space, square foot living spaces, and bedrooms spaces were good variables to further analyse.

However, when we look at these variables, we can also see that there are many outliers that need to be dropped to get a clearer understanding of normality before moving forward.

Next Steps

In the future, we as analysts should sharpen our focus on our normality testing, by dropping the outliers in this data.

I recommend continuing to explore square foot living space, square foot lot space, and bedrooms space as variables. They have the lowest random chance, they also offer the most opportunity for renovation in the future. I would also recommend, web scraping for public health data about what black families need as they grow intergenerational families.

Thank You! - Beau Morton (GitHub)

