

### Appendix C: Original Dataset full\_dataset\_2020.csv

### Appendix D: Definitions for Original Dataset

All variables were measured in 2020. Descriptions are directly from [Baltimore Neighborhood Indicators Alliance](#) dashboard, where the dataset was retrieved from. The dependent variable of interest is `vacant_abandoned`. Other variables will be used as controls and exploratory independent variables.

Variable name	Description
Community	56 rows <ul style="list-style-type: none"><li>Baltimore city (as a whole)</li><li>55 Community Statistical Areas (CSA) within Baltimore city</li></ul>
dirty_streets	<b>Rate of Dirty Streets and Alleys Reports per 1,000 Residents:</b> The rate of service requests for dirty streets and alleys through Baltimore's 311 system per 1,000 residents.
homes_without_vehicle	<b>Percent of Households with No Vehicles Available (%)</b> : The percentage of households that do not have a personal vehicle available for use out of all households in an area.
hs_completion	<b>High School Completion Rate (%)</b> : The percentage of 12th graders in a school year that successfully completed high school out of all 12th graders within an area.
public_art	<b>Public Art per 1,000 Residents:</b> The number of works of public art per 1,000 residents. These works include, but are not exclusive to, murals, monuments, sculptures, mosaics, and stained glass.
event_permits	<b>Number of Event Permits Requested per 1,000 Residents:</b> The number of event permits requested per 1,000 residents. Events include, but are not limited to, festivals, block parties, races, and parades.
unemployment	<b>Unemployment Rate (%)</b> : The percent of persons between the ages of 16 and 64 that are in the labor force (and are looking for work) but are not currently working.
commercial_properties	<b>Total Number of Commercial Properties:</b> The total number of commercial properties located within an area in a particular year.
employment	<b>Percent Population 16-64 Employed (%)</b> : The percent of persons between the ages of 16 and 64 formally employed or self-employed and earning a formal income. It is used to understand how many persons are working out of the entire population, not just those in the labor force (persons who may be looking for work or working).
no_hs_diploma	<b>Percent Population (25 Years and over) With Less Than a High School Diploma or GED (%)</b> : The percentage of persons that have not completed, graduated, or received a high school diploma or

	GED.
some_college	<b>Percent Population (25 Years and over) With High School Diploma and Some College or Associates Degree (%)</b> : The percentage of persons that have completed, graduated, or received a high school diploma or GED and also have taken some college courses or completed their Associate's degree.
bachelors_degree	<b>Percent Population (25 Years and over) with a Bachelor's Degree or Above (%)</b> : The percentage of persons that have completed, graduated, or received a Bachelor's or an advanced degree.
homes_no_internet	<b>Percent of Households with No Internet at Home (%)</b> : Percent of households with no home internet of any kind out of all households in an area.
business_lessthan1yr	<b>Percent of Businesses that are 1 Year old or Less (%)</b> : The percentage of businesses (both for-profit and non-profit) that report their establishment as being one year old or less.
businesses	<b>Total Number of Businesses</b> : The total number of businesses (both for-profit and non-profit) within an area at a single time in a year.
violent_crime	<b>Violent Crime Rate per 1,000 Residents</b> : The violent crime rate measures the number of Part 1 crimes identified as being violent (homicide, rape, aggravated assault, and robbery) that are reported to the Police Department.
property_crime	<b>Property Crime Rate per 1,000 Residents</b> : The property crime rate measures the number of Part 1 crimes identified as being property-based (burglary and auto theft) that are reported to the Police Department.
shootings	<b>Number of Shootings per 1,000 Residents</b> : The rate of 911 calls for shootings per 1,000 residents in an area.
part1_crime	<b>Part 1 Crime Rate per 1,000 Residents</b> : The Part 1 crime rate captures incidents of homicide, rape, aggravated assault, robbery, burglary, larceny, and auto theft that are reported to the Police Department.
overdose_calls	<b>Number of Overdose Calls for Service per 1,000 Residents</b> : The rate of 911 calls to police for overdoses per 1,000 residents in an area.
residential_properties	<b>Total Number of Residential Properties</b> : The total number of residential properties located within an area as identified by Maryland Property View. It is important to note that that this indicator is a count of properties (single family homes, condominiums, and duplexes) and that a property can be comprised of multiple housing units.
vacants_ownedby_city	<b>Percentage of Vacant Properties Owned by Baltimore City (%)</b> :

	The percent of properties that are classified as being vacant and abandoned that are owned by Baltimore City. Baltimore City has come to own these properties through a variety of ways including (but not limited to) eminent domain, unpaid tax or water bills, and direct purchase.
home_sales_foreclosure	<b>Percentage of Residential Sales in Foreclosure (REO) (%)</b> : The portion of the homes and condominiums sold that were identified as being owned by the bank (REO) out of all residential properties sold in a calendar year.
cash_homesales	<b>Percentage of Residential Sales for Cash (%)</b> : The percent of homes and condominiums sold for cash out of all residential properties sold in a calendar year. These types of sales tend to signify investor-based purchases as homes purchased for cash either become rental properties or later sold again in an effort to generate a profit.
housing_violations	<b>Percentage of Residential Properties with Housing Violations (Excluding Vacants) (%)</b> : The percentage of residential properties that have received at least one housing code violation from the Baltimore City Department of Housing out of all properties.
rehab_permits	<b>Percentage of Properties with Rehabilitation Permits Exceeding \$5,000 (%)</b> : The percent of residential properties that have applied for and received a permit to renovate the interior and/or exterior of a property where the cost of renovation will exceed \$5,000. The threshold of \$5,000 is used to differentiate a minor and more significant renovation project.
foreclosures	<b>Percentage of Properties Under Mortgage Foreclosure (%)</b> : The percentage of properties where the lending company or loan servicer has filed a foreclosure proceeding with the Baltimore City Circuit Court out of all residential properties within an area. This is not a measure of actual foreclosures since not every property that receives a filing results in a property dispossession.
owner_occupied	<b>Percentage of Housing Units that are Owner-Occupied (%)</b> : The percentage of homeowners that are the principal residents of a particular residential property out of all residential properties. It is important to note that a portion of these owner-occupied properties may be subdivided and have tenants that pay rent and are not included in the calculation.
no_mail	<b>Percent Residential Properties that do Not Receive Mail (%)</b> : The percentage of residential addresses for which the United States Postal Service has identified as being unoccupied (no mail collection) for a period of at least 90 days or longer. These properties may be habitable, but are not currently being occupied. It is important to note that a single residential property can contain more than one address.
construct_permits	<b>Number of New Construction Permits per 1,000 Residential Properties</b> : The number of permits issued for new residential buildings per 1,000 existing residential properties within a

	community.
homestead_taxcredits	<b>Number of Homestead Tax Credits per 1,000 Residential Units:</b> The number of residential properties that received the homestead tax credit per 1,000 residential properties within an area. The Homestead Credit limits the increase in taxable assessments each year to a fixed percentage. Every county and municipality in Maryland is required to limit taxable assessment increases to 10% or less each year, with the Baltimore City rate capped at 4%.
demo_permits	<b>Number of Demolition Permits per 1,000 Residential Properties:</b> The number of permits issued for the demolition of residential buildings per 1,000 existing residential properties.
rent_afford	<b>Affordability Index - Rent (%)</b> : The percentage of households that pay more than 30% of their total household income on rent and related expenses out of all households in an area.
mortgage_afford	<b>Affordability Index - Mortgage (%)</b> : The percentage of households that pay more than 30% of their total household income on mortgage and other housing-related expenses.
pop_change	<b>Percent Population Change from Last Census (%)</b> : The percentage of change in population since the last decennial census enumeration (2010).
population	<b>Total Population</b> : The total number of persons of all ages that live within an area.
income	<b>Median Household Income (USD)</b> : The median household income is the middle value of the incomes earned in the prior year by households within an area. Income and earnings are inflation-adjusted for the last year of the 5-year period.
vacant_abandoned	<b>Percentage of Residential Properties that are Vacant and Abandoned (%)</b> : The percentage of residential properties that have been classified as being vacant and abandoned by the Baltimore City Department of Housing out of all properties. Properties are classified as being vacant and abandoned if: the property is not habitable and appears boarded up or open to the elements; the property was designated as being vacant prior to the current year and still remains vacant; and the property is a multi-family structure where all units are considered to be vacant.

Baltimore Neighborhood Indicators Alliance – Jacob France Institute. (2022). *Vital Signs 20*. Retrieved from [www.bnaijfi.org](http://www.bnaijfi.org)