

The background features a series of concentric circles in light gray, some solid and some dashed, creating a ripple effect. A large, solid red oval is centered on the page, containing the main title and subtitle. A dark gray, curved shape is positioned to the left of the red oval, partially overlapping it.

Crime, Schools, & Populations

In the Austin Area

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We wanted to know how crime rates & school's ratings by zip code were related in the Austin area.



DATA PROVIDED BY



A red speech bubble graphic with a tail pointing towards the bottom left. The text "Cleanup school data" is written in white inside the bubble.

“Cleanup school data”

- We found zip codes as a common field in our various data sets.
- We initially found 41 zip codes in the Austin area.
- Not all zip codes had schools and all three stages of primary education. We decided to focus on elementary schools since their ratings were more likely connected to only one zip code.
- Our API calls had to request data by pages limited 50 schools per page. The free API calls were limited to 20 calls per day.
- Our initial data set consisted of 7 combined pages and dictionaries within dictionaries.

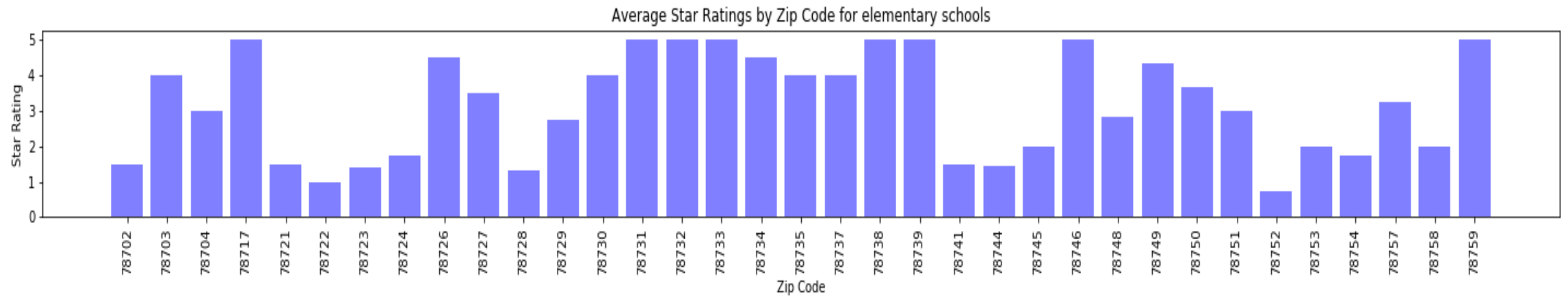
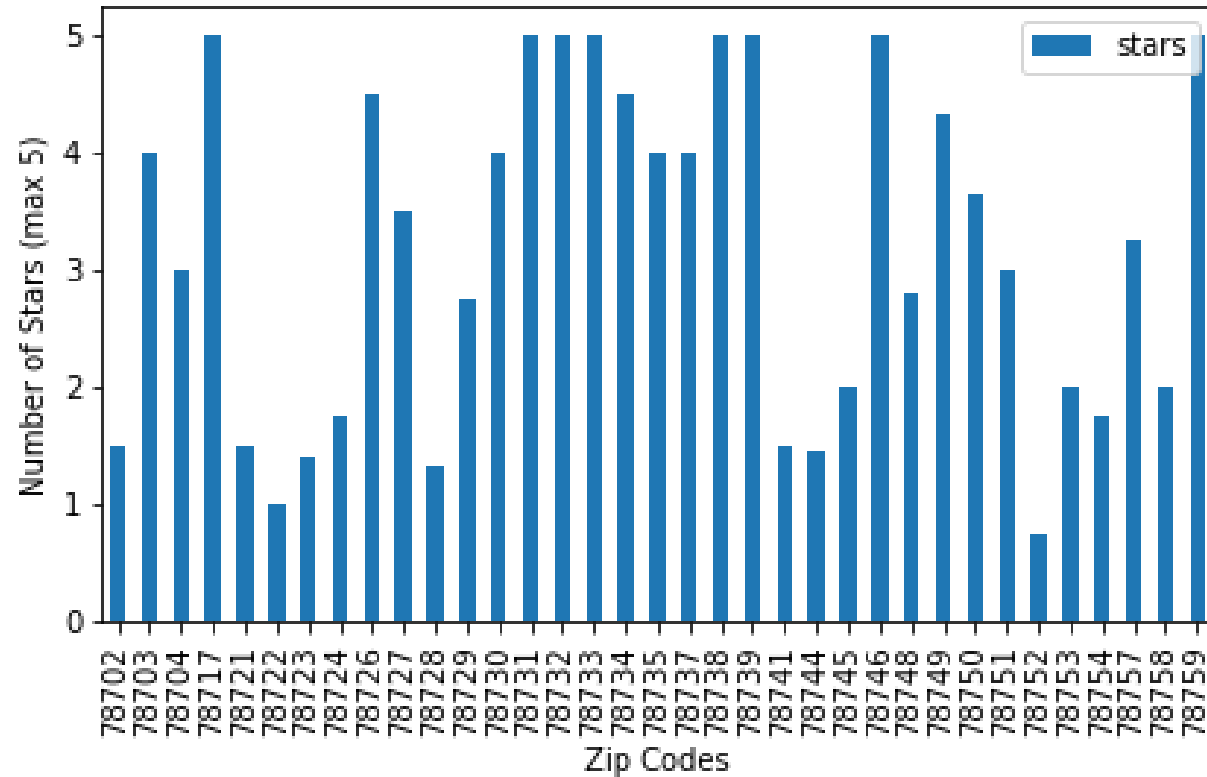
A red speech bubble graphic with a tail pointing towards the bottom left. It contains the text 'Analysis Process for our school data.' in a black, sans-serif font.

Analysis Process for our school data.

- I used excel to format my first dataframe to see what my results would look like using pivot tables, vlookups, and filters.
- We decided to use the data from schools that had the most data and ratings that correlated more closely to zip codes. This left us with 35 zip codes that was verified to my excel results.
- We ended up using data from 132 school from out of 324 schools in Austin, TX.

School Ratings by Zip Code

We experimented with different bar charts. It showed there were great disparities between schools in different zip codes throughout the city. There were more zip codes better than average. The overall average star rating was 2.7. 22 zip codes were above this average.



Theft

- Theft by shoplifting
- Theft from person
- Theft of bicycle
- Breach of computer security

Aggravated Assault

- Aggravated assault fam/date violence

Burglary

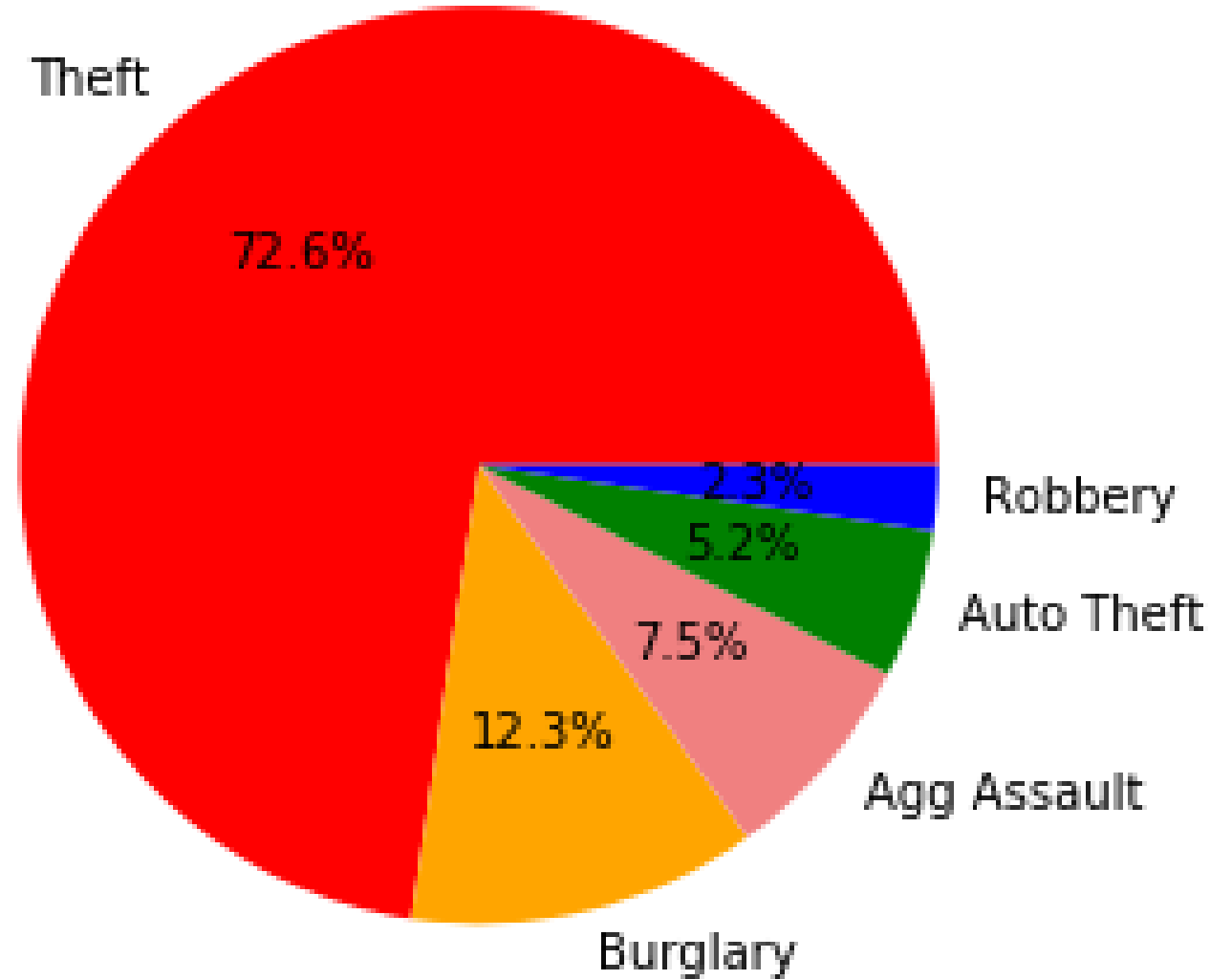
- Burglary on residence
- Burglary non residence

Robbery

Auto Theft

- Burglary of vehicle

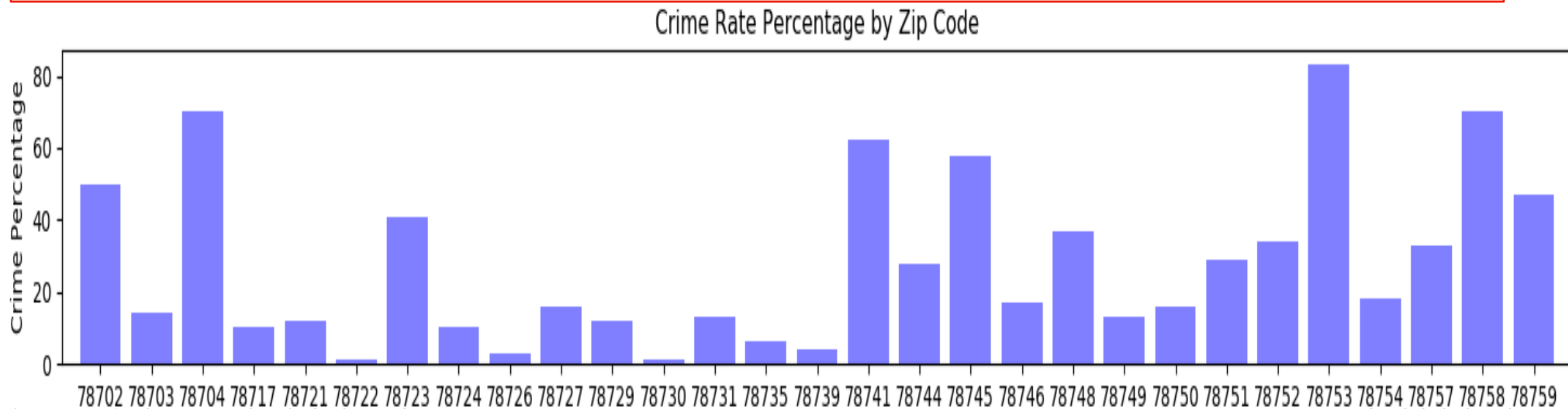
Theft



Austin Area, Total Crime by Category

All sub categories of crime by zipcodes

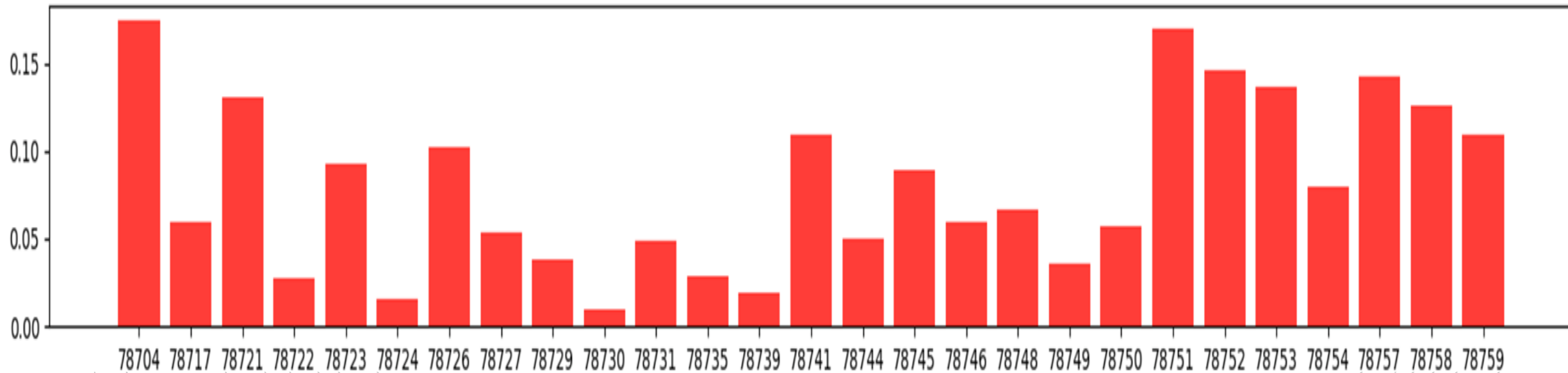
78753 – North Lamar Area



Total crime vs Population by Zipcode

Percentages = Crime/Population

78751 – Hyde Park, high
78752 – St Johns Area, high



Where you live in Austin can increase your chances of being involved or witness to a crime.

Zip codes with the highest theft

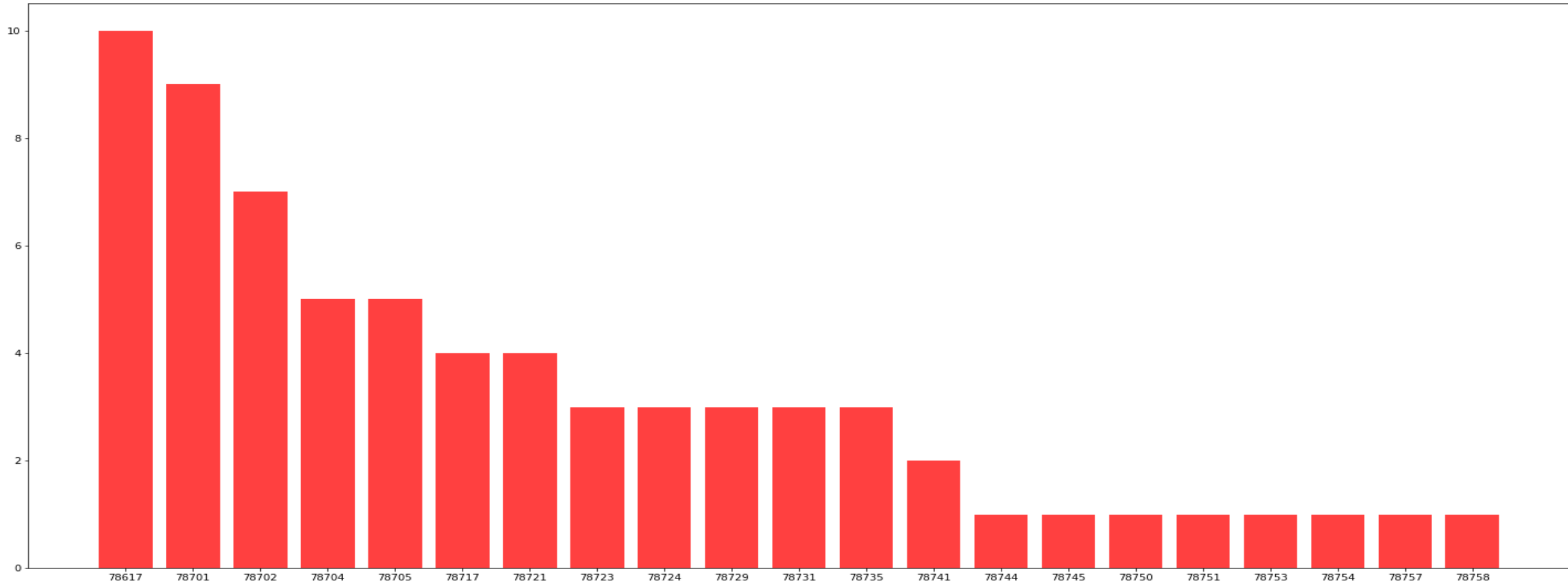
-
- Zip codes with the highest theft
- 78660- Pflugerville
 - 78613 -Cedar Park
 - 78617- De Valle
- | Zip Code | Number of Thefts |
|----------|------------------|
| 78660 | 60 |
| 78613 | 57 |
| 78665 | 50 |
| 78641 | 46 |
| 78644 | 44 |
| 78681 | 39 |
| 78651 | 35 |
| 78645 | 30 |
| 78642 | 28 |
| 78646 | 26 |
| 78655 | 26 |
| 78643 | 23 |
| 78647 | 23 |
| 78664 | 16 |
| 78648 | 14 |
| 78653 | 14 |
| 78652 | 12 |
| 78654 | 12 |
| 78640 | 11 |
| 78656 | 11 |
| 78663 | 10 |
| 78662 | 10 |
| 78661 | 8 |
| 78666 | 7 |
| 78649 | 7 |
| 78657 | 7 |
| 78658 | 6 |
| 78650 | 5 |
| 78667 | 3 |
| 78668 | 3 |
| 78669 | 3 |
| 78670 | 3 |
| 78671 | 2 |
| 78672 | 2 |
| 78673 | 2 |
| 78674 | 1 |
| 78675 | 1 |

Just Aggravated Assault by zip code

78617- Del Valle, high

78701- Downtown, high

78702- East Austin Chicon and 7th, high



Conclusion

- There is a strong correlation between crime rates and school ratings in Austin.
- There are distinct zip codes where you see highly rated schools and low or no crime rates.
- There are limitations on data and what they can show.
- The best zip codes with low crime rates and 5 star elementary schools are 78732, 78733, 78738, & 78759.
- There are many crimes not reported or don't result in conviction and are not recorded.
- Test scores are only one factor that can define a school and how we rate a school.

