

Predicting Airbnb Price

By Giovaldi R C.

diambil dari insideairbnb.com





About me

Giovaldi R C

siswa JCDS Purwadhika Bandung

Background

Arsitektur, Universitas
Indonesia

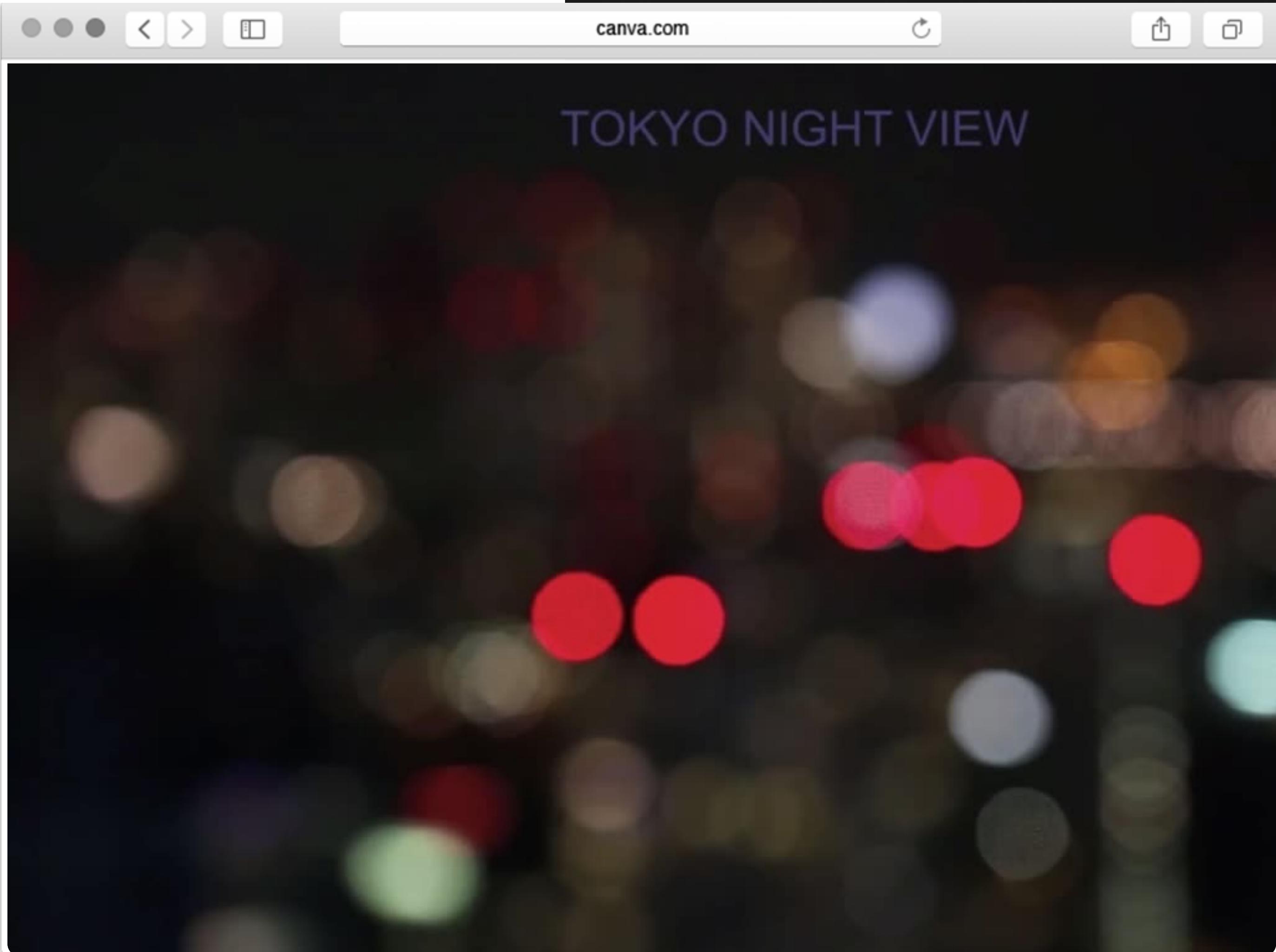
Usia

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Seluruh analisis dilakukan dengan pendekatan terhadap dataset, riset, dan materi terkait.

TABLE OF CONTENT



- Pengusaha Airbnb diharapkan dapat mematuhi serta mengantisipasi peraturan ketat terkait persyaratan Minpaku/Airbnb di Tokyo agar menghindari pembatalan beroperasi.
- Pengusaha Airbnb tidak mengetahui top area penjualan Airbnb yang berlokasi dekat dengan lokasi venue 2020 Olympics yang dapat memaksimalkan keuntungan.
- Pengusaha belum mengetahui harga yang tepat yang akan digunakan pada saat membuat airbnb

Airbnb di Tokyo memiliki pasang surut selama beberapa tahun hingga 2020

02

Problems

Airbnb

/'ɛərbɪ:ɛnbi:/

Airbnb adalah sarana penyewaan untuk sebuah properti dan sejenisnya yang berbasis online yang memungkinkan seorang penggunanya mendaftarkan atau menyewa properti tersebut untuk digunakan dalam jangka pendek. Aturan untuk nominal harga sewanya pun ditetapkan oleh sang pemilik properti. Saat ini, Airbnb berjumlah 2.000.000 properti di 34.000 kota dan 191 negara. Airbnb sendiri telah berdiri sejak bulan Agustus 2008 dan berkantor pusat di San Francisco, California



Sign up Log in

Vacation rentals in 三陸海岸

Find and book unique accommodations on Airbnb.

LOCATION
三陸海岸, Japan

CHECK IN
Add Date

CHECK OUT
Add Date

ADULTS
1

CHILDREN
0

Q. Search

Other great vacation rentals in 三陸海岸

Thumbnail	Description	Type	Price
	SUPERHOST Entire cottage 1~4名様でコテージ貸切 - 平庭山荘 コテ...	Entire cottage	\$55 / night
	Private room 【諸亭たろう庵】天望棟・次郎の庵 (1...	Private room	\$1,634 / night
	SUPERHOST Entire cottage 5~12名様でコテージ貸切 - 平庭山荘 コ...	Entire cottage	\$46 / night
	Private room 【諸亭たろう庵】お部屋お任せ 全室露...	Private room	\$1,575 / night
	Private room 【諸亭たろう庵】天望棟・次郎の庵 (3...	Private room	\$1,828 / night
	Private room 【諸亭たろう庵】天望棟・次郎の庵 (2...	Private room	\$1,758 / night
	Private room 【諸亭たろう庵】離れ棟・三郎の庵 (16...	Private room	\$1,687 / night
	Private room 【諸亭たろう庵】本館・たろうの庵 (8...	Private room	\$1,599 / night

04

Is it new in Japan ?

The screenshot shows the top navigation bar of the Sakura House website, featuring links for About Us, Event, Sakura Tips, News, FAQ, and Contact Us, along with a language selection dropdown. Below the navigation is a search bar with fields for Check in (2020/07/26), Check out (optional), Person (1), and a SEARCH button. Below the search bar are links for Advanced Search and Map Search. To the right, there is descriptive text about Sakura House's history and services, followed by a link to their ABOUT US page.

What is
SAKURA HOUSE?

SAKURA HOUSE CO., LTD. has been the pioneer in managing monthly guest houses, share houses and apartments exclusively for the foreign community in Tokyo and Kyoto, Japan since 1992.

ABOUT US →

The screenshot shows a section of the website displaying three room options:

- GUEST HOUSE**
TABATA TOKYO 3 (GUEST HOUSE)
ROOM 101
Asakusa/Ueno/Akihabara/Nippori
¥38,000-/month
¥34,000 / month
2 MONTH DISCOUNT
for New residents only
[Detail](#)
- SHARE HOUSE**
OJIMA TOKYO 3 (KOTO TOKYO SHARE HOUSE)
ROOM 304
Koto/Edogawa/Katsushika
¥68,000-/month
¥58,000 / month
2 MONTH DISCOUNT
for New residents only
[Detail](#)
- SHARE HOUSE**
KATSUSHIKA TATEISHI (TOKYO SHARE HOUSE)
ROOM 201
Koto/Edogawa/Katsushika
¥69,000-/month
¥59,000 / month
2 MONTH DISCOUNT
for New residents only
[Detail](#)

A Story of Airbnb Tokyo

SAKURA HOUSE®

ABOUT US EVENT SAKURA TIPS NEWS FAQ CONTACT US

Check in 2020/07/26 Person 1

What is SAKURA HOUSE?

SAKURA HOUSE CO., LTD. has been the pioneer in managing monthly guest houses, share houses and apartments exclusively for the foreign community in Tokyo and Kyoto, Japan since 1992.

[ABOUT US →](#)

SAKURA HOUSE®

ABOUT US EVENT SAKURA TIPS NEWS FAQ CONTACT US

GUEST HOUSE
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for New residents only

SAKURA HOUSE

Vacation rentals in 三陸海岸

Find and book unique accommodations on Airbnb

LOCATION
三陸海岸, Japan

CHECK IN Add Date **CHECK OUT** Add Date

ADULTS 1 **CHILDREN** 0

Other great vacation rentals in 三陸海岸

SUPERHOST Entire cottage
1~4名様でコテージ貸切 - 平庭山荘 コテ...
\$55 / night

Private room
【諸亭たろう庵】天望棟・次郎の庵 (1...
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\$1,687 / night

AIRBNB

EDITORS' PICK | 5,591 views | Nov 18, 2019, 11:29am EST

Airbnb Signs '\$500 Million' Olympic Sponsorship Ahead Of IPO



Sofia Lotto Persio Forbes Staff
Business
London-based Assistant Editor, writer of *The Upturn* weekly newsletter.



Airbnb has become an Olympic sponsor. MATT ALEXANDER/PA WIRE

Airbnb has signed a sponsorship deal reportedly worth \$500 million with the International Olympic Committee (IOC) ahead of its planned IPO in 2020.

At a launch event at Japan House in London, IOC president Thomas Bach said Airbnb would commit to providing "guaranteed" accommodation over the next nine years in the host countries of upcoming Olympic events—Tokyo 2020, Beijing 2022, Paris 2024, Milan 2026, Los Angeles 2028.

BUSINESS INSIDER

Airbnb is becoming a worldwide Olympic partner in time for the 2020 Olympics in Tokyo as the games' organisers bid to cut the costs associated with hosting the event.

Airbnb said that the partnership with the International Olympic Committee (IOC) would cover five Olympics and Paralympics over the next nine years. Alongside next year's Tokyo Olympic games this includes: the Beijing 2022, Paris 2024, Milan 2026 and LA 2028 winter and summer games. All are major rental hotspots for the accommodation platform.

Details of the partnership were not disclosed, but the Financial Times [reported the deal was set at \\$500 million](#), citing sources briefed on the talks.

IOC President Thomas Bach said that the partnership would not replace the Olympic village but would be based on a guarantee of accommodation for visitors, families of athletes, and officials, and would reduce the need for host cities to unsustainably invest in new hotels.



Pada bulan November 2019, Airbnb mengumumkan penandatanganan perjanjian untuk menjadi Sponsor dari acara besar yang diselenggarakan International Olympics Committee (IOC) hingga tahun 2028 mendatang. Berdasarkan Forbes, total dari perjanjian tersebut tidak tanggung, yaitu bernominal sebesar \$ 500 juta dollar. Lalu menurut Business Insider, realisasi ini pun langsung diterapkan pada 2020 Olympics yang diselenggarakan di Tokyo

Forbes

Business Insider

A Story of Airbnb Tokyo



2020 Olympics adalah gelaran olimpiade olah raga internasional yang jauh pada 24 Juli 2020. Ada 28 cabang olah raga yang akan dikompetisikan dan terdapat 5 cabang olah raga baru yang direkomendasikan oleh kota Tokyo. Kelima cabang itu adalah baseball, karate, olah raga mendaki, ski dan berselancar. Seperti perhelatan internasional lainnya, 2020 Olympics juga memiliki mascot yang bernama Miraitowa yang berarti "future" (mirai), "eternity" (towa) dan Someity yang artinya so mighty

TOKYO 2020
EN
PARALYMPIC GAMES

[HOME](#)
[NEWS](#)
[TORCH RELAY](#)
[SCHEDULE](#)
[VIDEOS](#)
[SPORTS](#)
[EVENTS](#)
[CEREMONIES](#)

Olympic Sports





3x3 Basketball



Archery



Artistic Gymnastics



Artistic Swimming



Athletics



Badminton



Baseball/
Softball



Basketball



Beach Volleyball



Boxing



Canoe Slalom



Canoe Sprint



Cycling BMX
Freestyle



Cycling BMX
Racing



Cycling Mountain
Bike



Cycling Road



Cycling Track



Diving



Equestrian



Fencing



Football



Golf



Handball



Hockey



Modern Pentathlon



Rhythmic
Gymnastics



Rowing



Sport Climbing



Surfing



Sailing



Shooting



Skateboarding



Swimming



Table Tennis



Taekwondo



Tennis



Trampoline
Gymnastics



Triathlon



Volleyball



Water Polo



Weightlifting



Wrestling

06
2020

Olympics

The New York Times

The New York Times

TRAVEL | The Tokyo 2020 Olympics: What You Need to Know

By Allan Richarz



On Thursday Feb. 6, more tickets for the Tokyo 2020 Olympic Games will be available for purchase to those living in the United States, Australia, Europe and the Middle East. Released at staggered times, [this latest block of tickets](#) will be offered in addition to tickets to the Paralympic Games [currently available for sale](#).

From July, the sporting world will descend on Tokyo for the 2020 Summer Olympics and Paralympic Games. An estimated 600,000 overseas visitors are expected to flock to the Japanese capital and surrounding regions, and the Games — as they are every four years — will be an endurance test of planning and logistics for organizers and attendees alike.

But there are ways for international guests to make the most of their stay in Tokyo and help ensure the smooth operation of the Games.



Minpaku/ Airbnb Law

The Mainichi : Japan's National Daily
Smart Home



HOME > ライフ > データで読み解くニッポン

2016.2.20

外国人が隣室で大騒ぎ！
「民泊」で不動産業界にトラブル多発中

**Minpaku is causing trouble a lot
to the neighbours**

認定「民泊」出現も
認可申請はわずか1社だけ

今年1月29日、東京都大田区は、全国で初めてとなる
「民泊」を認める条例を施行。同日から申請を受け付け、



'Minpaku' lodging law goes into effect, but complicated process thwarts property owners

SMART HOME

Airbnb forced to cancel Japan bookings as new law approaches

ランキング

1時間 昨日 1週間 い

1 新入社員に先輩・上司が身に
せるべき3つの「最低条件」

2 韓国は日本にとっての「我慢
界」をついに超えてしまった

3 ZOZOSUIT担当役員が激白し
省」と計画未達の理由

4 4コマ漫画「アメブロ」、
関係者の嘆きと苦笑から作成



japanese word referring to private residence
rented out on a temporary or short-term basis

08

Font Size S M L Japanese English | Site Map

minpaku Portal Website for Private Lodging

Google カスタム検索

 For Those Starting Private Lodging Operation

 For Private Lodging Users

 Basic Knowledge About Minpaku

 FAQs

 Private Lodging Business Operators

 Private Lodging Administrators

 Private Lodging Agents

 Safety-assured Private Lodging

 For People Living Near Private Lodging

 Basic Knowledge of Private Lodging

 FAQs

 Other Information

 Related Links

1. Di Tokyo, tidak ada minpaku atau temporary hotels yang melebihi batas penyewaan melebihi 180 hari dalam setahun.
2. Diwajibkan untuk selalu mengecek kabar dan informasi sekitar identitas konsumen
3. Kegiatan ilegal terkait pelanggaran akan dikenakan denda (up to 1.000.000 yen)
4. Minimum luas Airbnb yang dapat beroperasi adalah minimum 3 x 3 meter persegi
5. Memiliki akses pribadi untuk permasalahan pengolahan sampah atau tidak ditanggung oleh pemerintah
6. Dibutuhkan surat atau lisensi penginapan yang selalu diperbarui

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Sakura House

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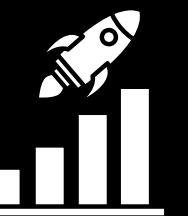
GOALS

10

Mendapatkan Analisis terkait Airbnb yang legal berdasarkan aturan "Minpaku Law" mengenai maksimum hari dapat beroperasinya sebuah Airbnb pertahun. (pandas)

Mendapatkan analisis tentang perkembangan untuk Airbnb yang berlokasi dekat dengan venue yang akan dipakai pada 2020 Olympics.. (Matplotlib,Seaborn,Folium)

Mendapatkan prediksi harga Airbnb dengan menggunakan machine learning regresi untuk mendapatkan harga yang cocok dan profit untuk pengusaha Airbnb.



Read Data



Karakteristik Airbnb
-Property Type, Room Type, Accommodates, Location, Bedrooms, Bathrooms, Reviews

Kelengkapan/fasilitas (amenities)
Air Conditioning,Wifi, Heating, Washer, Iron, Smoke Detector, Refrigerator,Entertainment Features

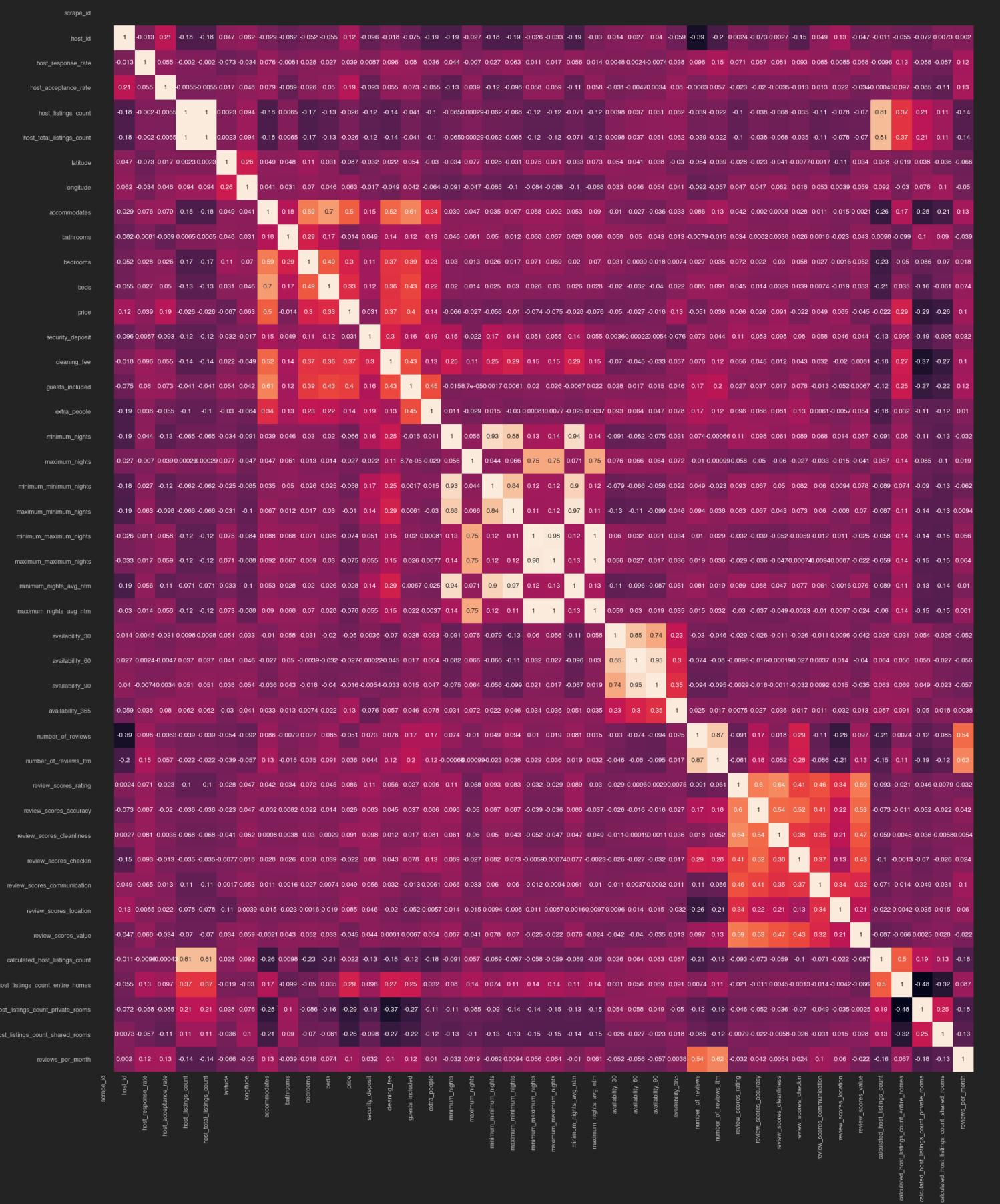
Informasi dan kewenangan Host /Pemilik
Superhost,Acceptance Rate,Host Verifications, Minimum Maximum Stay, Rules,Price

neighbourhood_cleansed	city	state	market	smart_location	country_code	country	latitude	longitude	is_location_exact	property_type	room_type	accommodates	bathrooms	bedrooms	beds	bed_type	amenities	price
Shibuya Ku	Shibuya	Tokyo	Tokyo	Shibuya, Japan	JP	Japan	35.67152	139.71203	t	Apartment	Private room	1	1.0	1.0	Real Bed	{TV,Internet,Wifi,Kitchen,"Paid parking off pr...	4192.0	
Sumida Ku	Sumida	Tokyo	Tokyo	Sumida, Japan	JP	Japan	35.71721	139.82596	f	Apartment	Entire home/apt	2	1.0	1.0	2.0	Futon	{TV,Internet,Wifi,"Air conditioning",Kitchen,"...	10965.0
Nerima Ku	Nerima	Tokyo	Tokyo	Nerima, Japan	JP	Japan	35.74267	139.65810	f	Apartment	Entire home/apt	2	1.0	1.0	1.0	Real Bed	{TV,Wifi,"Air conditioning",Kitchen,"Hot tub",...	4192.0
Setagaya Ku	Tokyo	Tokyo	Tokyo	Tokyo, Japan	JP	Japan	35.66443	139.65707	t	Apartment	Entire home/apt	2	1.0	0.0	1.0	Real Bed	{TV,Internet,Wifi,"Air conditioning",Kitchen,"...	6987.0
Nerima Ku	Nerima	Tokyo	Tokyo	Nerima, Japan	JP	Japan	35.74264	139.65832	f	Apartment	Entire home/apt	2	1.0	1.0	1.0	Real Bed	{TV,Internet,Wifi,"Air conditioning",Kitchen,"...	3977.0

	count	mean	std	min	25%	50%	75%	max
scrape_id	12600	20200530034815	3.433730011831120200530034812	20200530034812	202005300348122020053003481220200530034812			
host_id	12600	171705336.7673	101540851.87956	151977	70616787	185878530.5	256531617	346941174
host_response_rate	12600	96.488941967447	11.309879552224		096.488941967445	100	100	100
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host_total_listings_count	12600	15.299603174603	23.201536466142	0	3	7	18	136
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longitude	12600	139.73538412540.082435260667956		139.12319	139.700145	139.72915	139.785165	142.20288
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bedrooms	12600	1.3703174603175	1.4653198874047	0	1	1	2	50
beds	12600	2.7524603174603	2.6781908196334	0	1	2	3	56
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security_deposit	12600	12235.761707989	31377.428403634	0	0	0	15000	560000
cleaning_fee	12600	6153.6296603148	5186.9339309904	0	3000	5500	8000	72000
guests_included	12600	2.3505555555556	1.9487968188813	1	1	2	3	27
extra_people	12600	1423.8901587302	1548.6991284282	0	0	1500	2000	30000
minimum_nights	12600	3.3729365079365	8.9456764252031	1	1	1	2	365
maximum_nights	12600	663.02301587302	476.84119522578	1	180	1000	1125	1125
minimum_minimum_nights	12600	3.1683333333333	8.6728420452581	1	1	1	2	365
maximum_minimum_nights	12600	4.6638095238095	10.862948168869	1	1	1	2	365
minimum_maximum_nights	12600	768.10674603175	455.75387842604	1	365	1125	1125	1125
maximum_maximum_nights	12600	773.64468253968	453.20760786175	1	365	1125	1125	1163
minimum_nights_avg_ntm	12600	3.7637301587302	9.1391747447837	1	1	1	2	365
maximum_nights_avg_ntm	12600	772.63156349206	453.03951957542	1	365	1125	1125	1141.3
availability_30	12600	20.97119047619	11.83900167426	0	12	28	30	30
availability_60	12600	44.291507936508	19.244274830892	0	31	54	59	60
availability_90	12600	67.697380952381	26.764513126814	0	56	80	89	90
availability_365	12600	180.55325396825	107.9755472705	1	90	174	270	365
number_of_reviews	12600	26.756904761905	40.841983988376	0	2	11	35	526
number_of_reviews_ltm	12600	11.002857142857	13.958494986201	0	1	7	17	346
review_scores_rating	12600	93.312698412698	6.9834199131337	20	92	95	97	100
review_scores_accuracy	12600	9.5574324324315	0.68268225415633	2	9	10	10	10
review_scores_cleanliness	12600	9.3789575289572	0.81537203373802	2	99.3789575289575	10	10	
review_scores_checkin	12600	9.6874517374519	0.61103230932888		29.6874517374517	10	10	10
review_scores_communication	12600	9.7561111111111	0.62003032965078	2	10	10	10	10
review_scores_location	12600	9.5519047619048	0.7011637670909	2	9	10	10	10
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calculated_host_listings_count_entire_homes	12600	8.9492857142857	12.909358132331	0	1	4	11	71
calculated_host_listings_count_private_rooms	12600	2.8316666666667	9.0754611103031	0	0	0	2	95
calculated_host_listings_count_shared_rooms	12600	0.66126984126984	3.1183280987039	0	0	0	0	35
reviews_per_month	12600	1.59504865594	1.1554210889212	0.03	0.781.5950486559399	2.08	25.91	

A Story of Airbnb Tokyo

.corr() Visualization



15

Exploratory Data Analysis

Univariate, Bivariate dan Multivariate

01

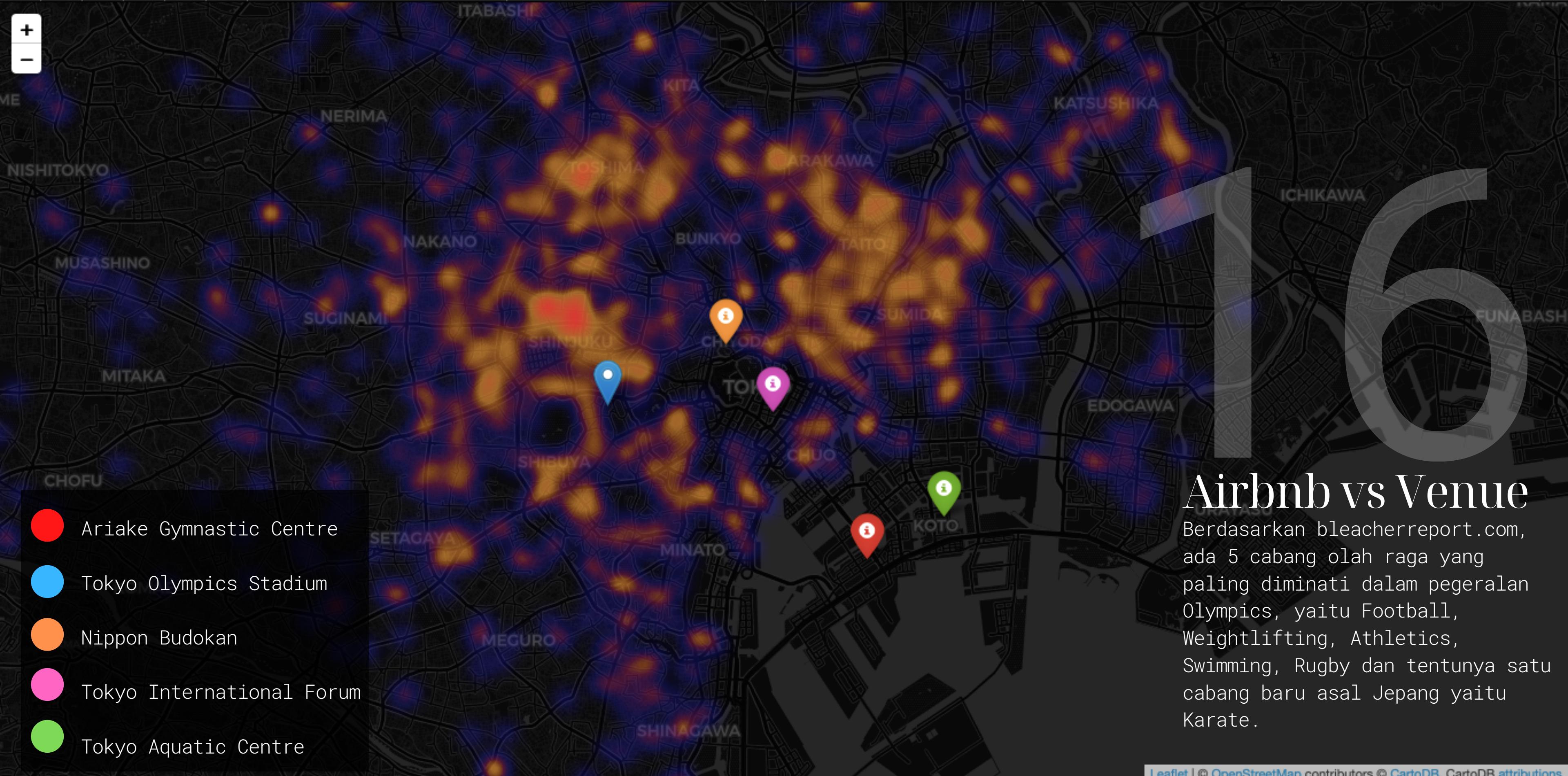
Numerical

02

Categorical

Bivariate dan Multivariate yang
lengkap akan dituliskan di Jupyter
Notebook

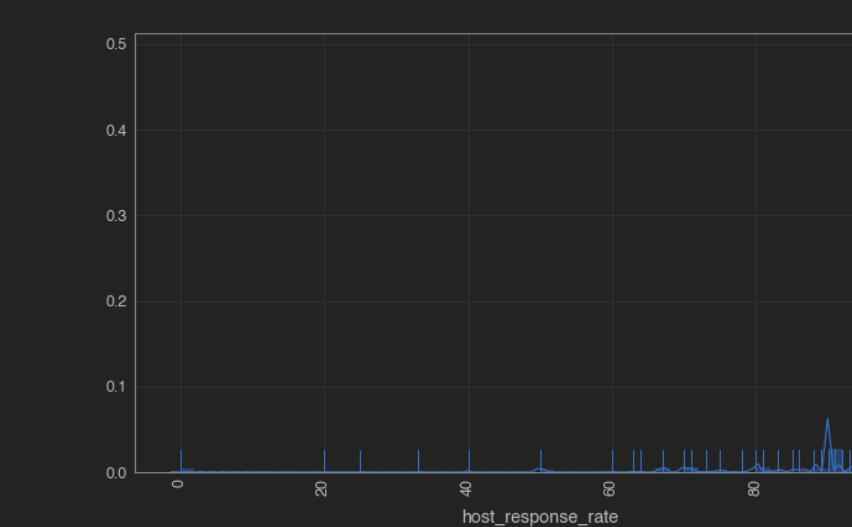
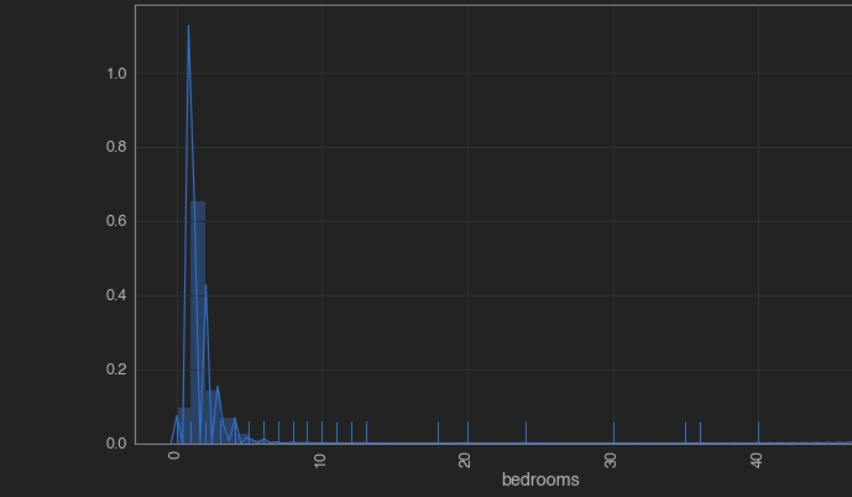
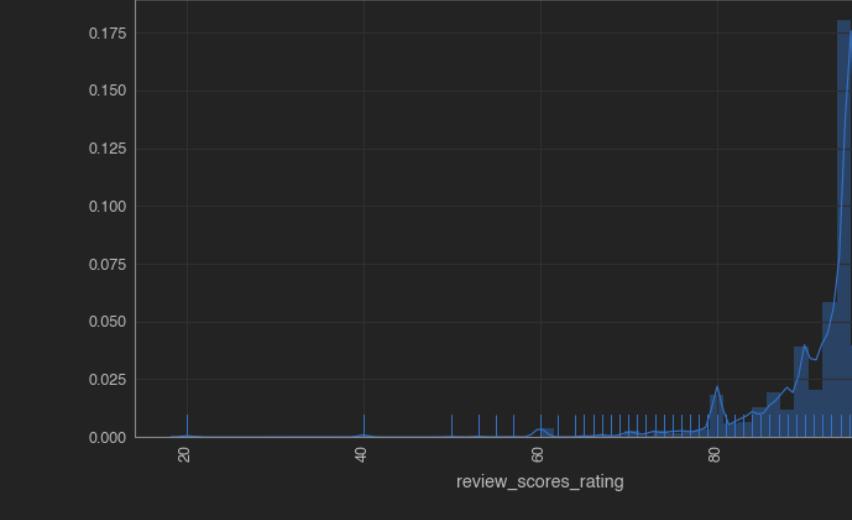
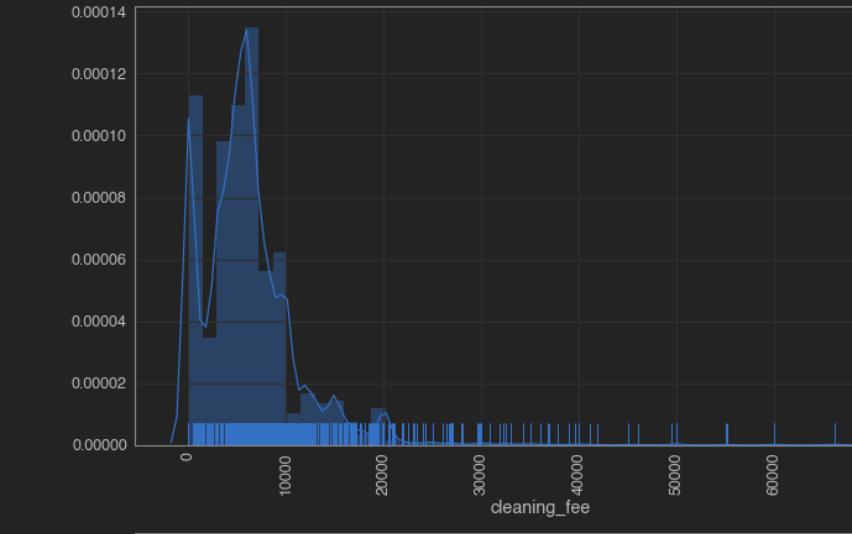
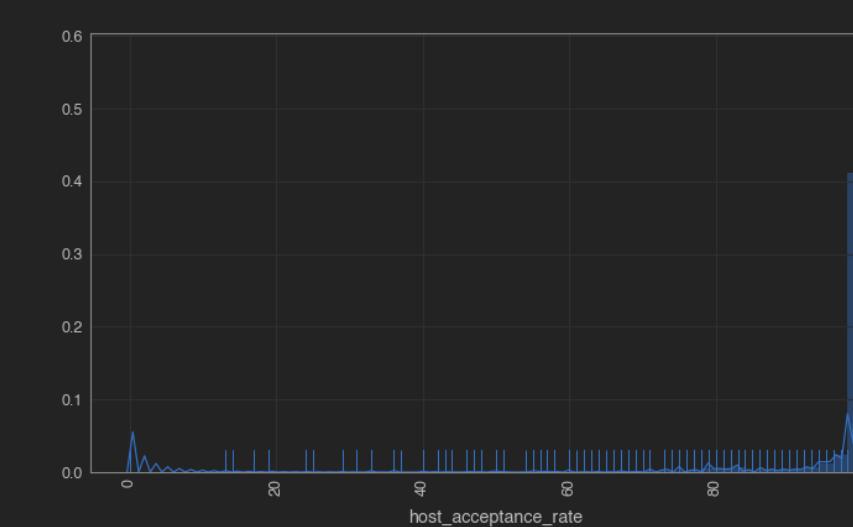
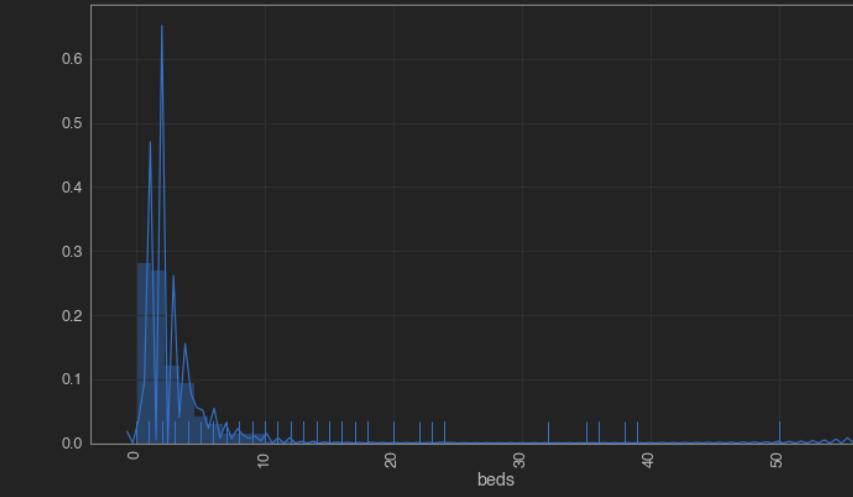
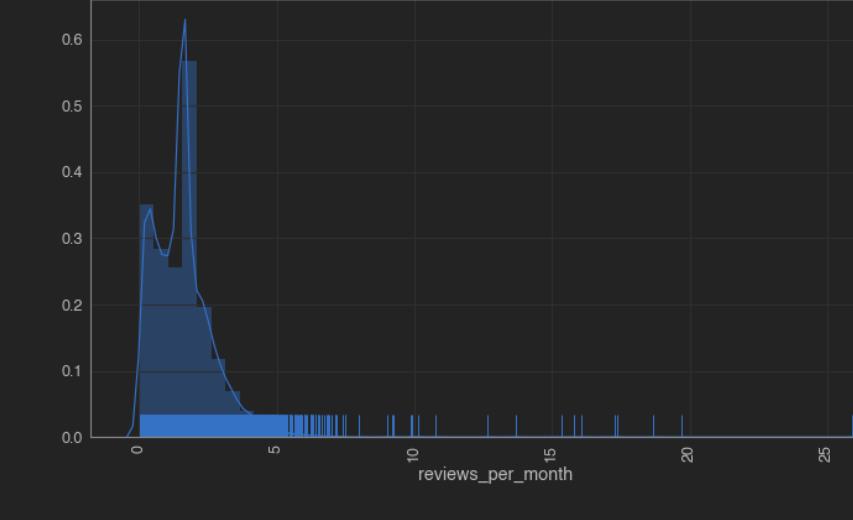
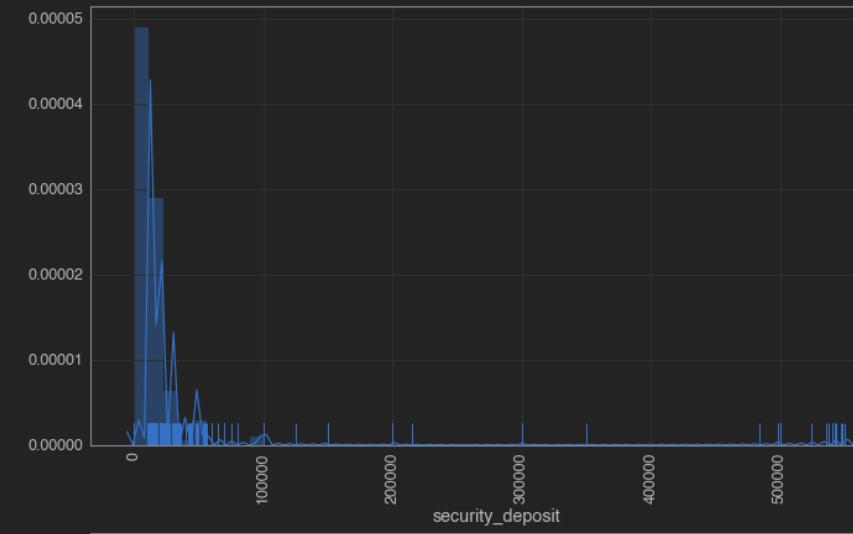
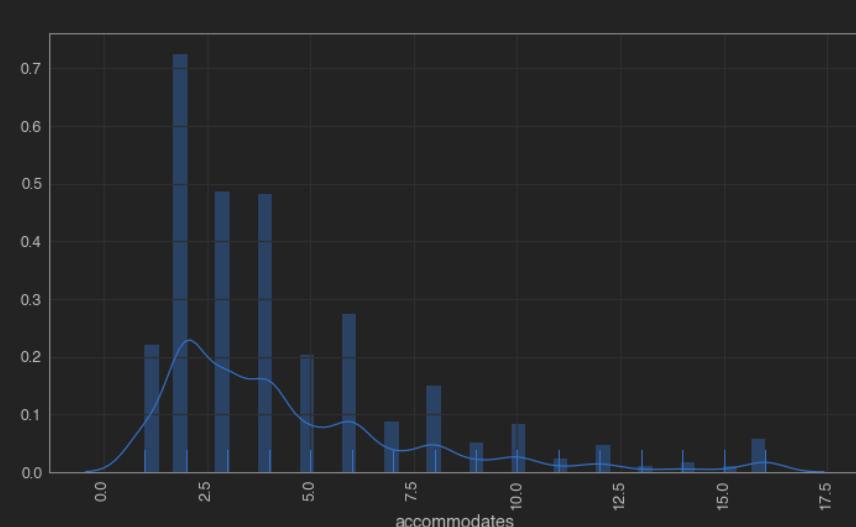
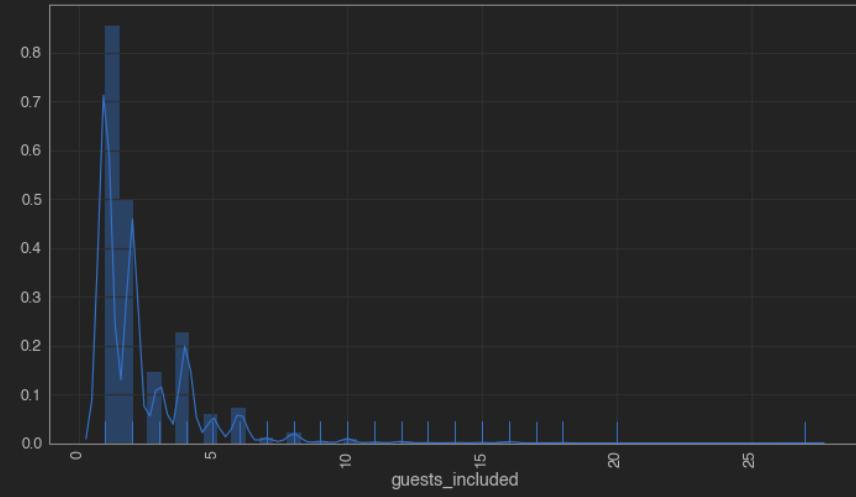
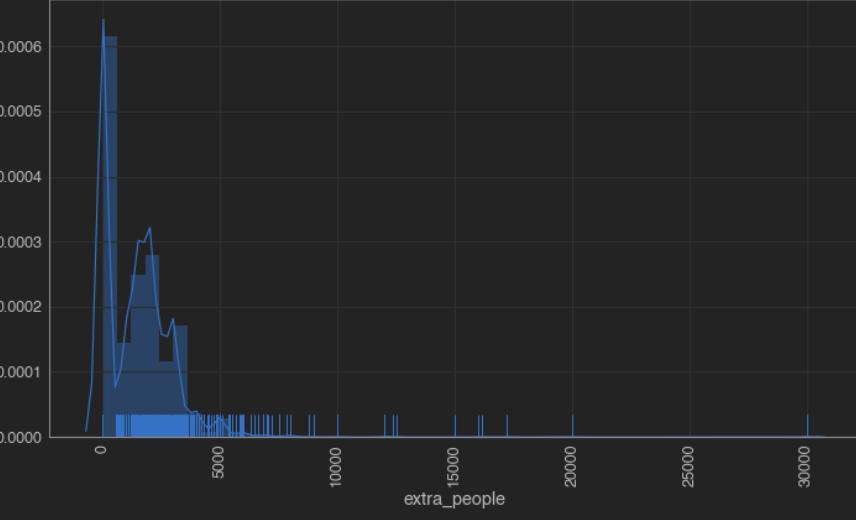
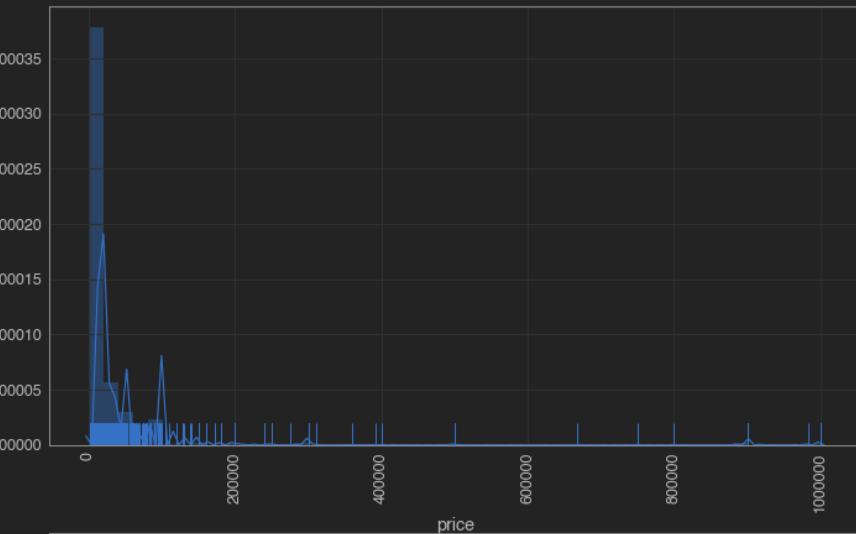
Tahap ini akan menggunakan
pandas, matplotlib,
seaborn dan folium untuk
membantu proses analisis



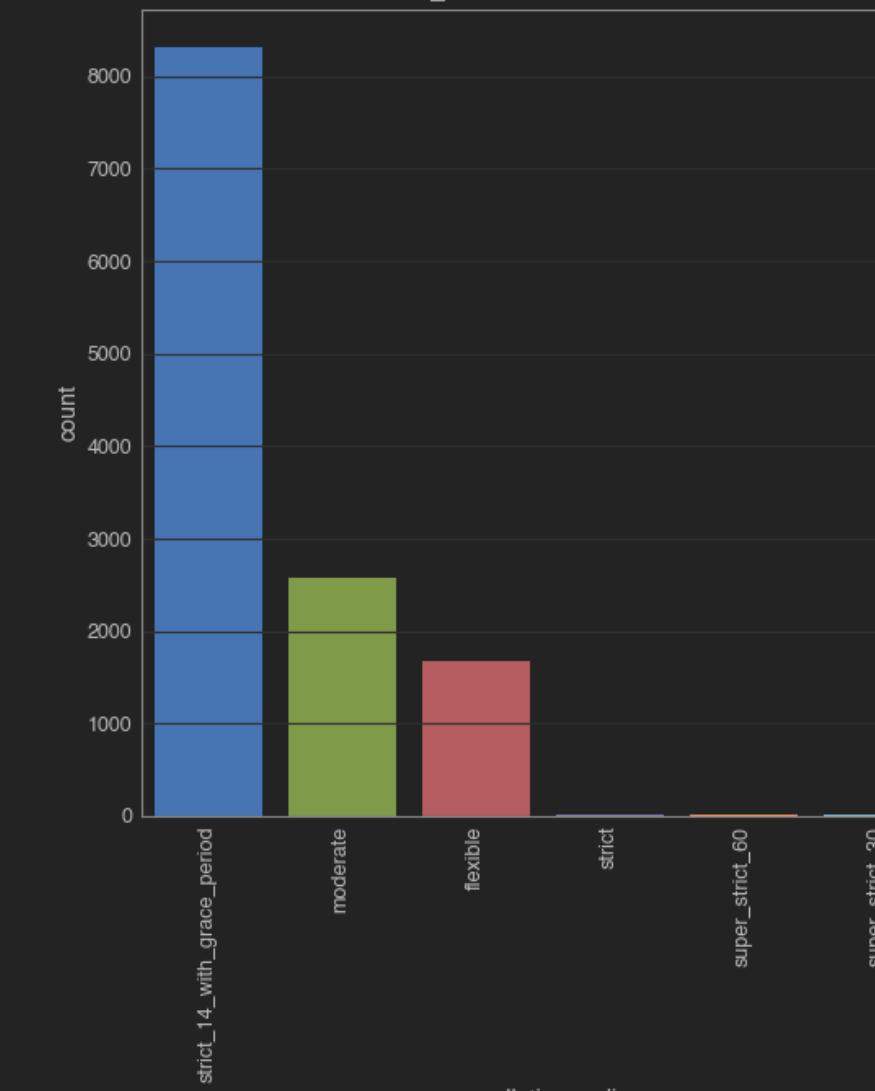
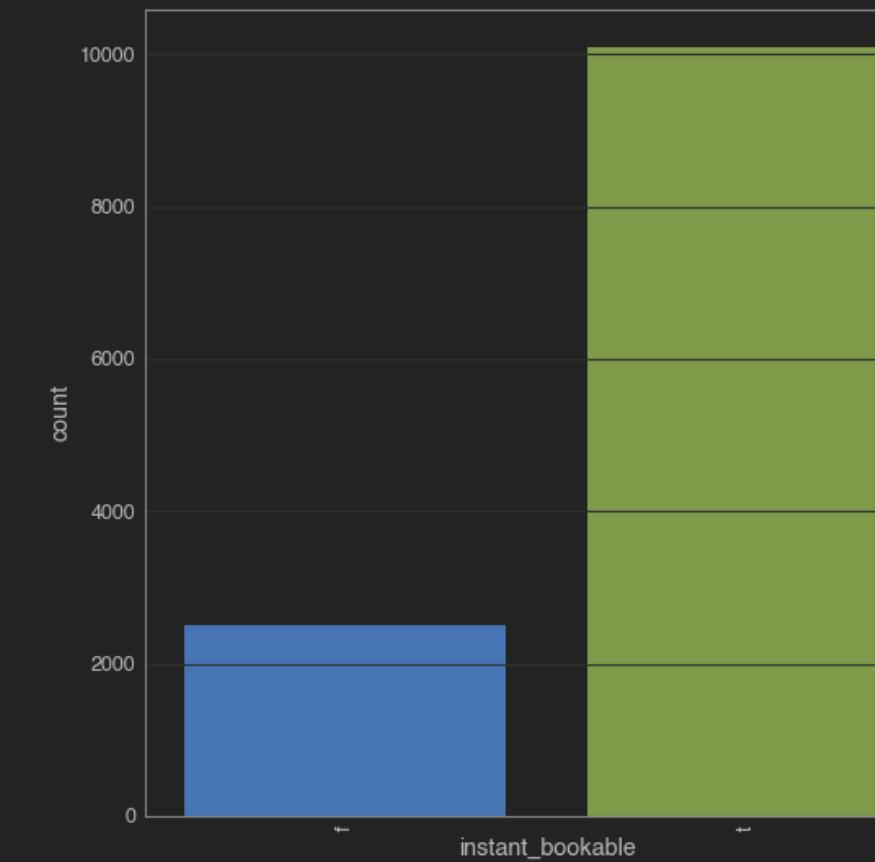
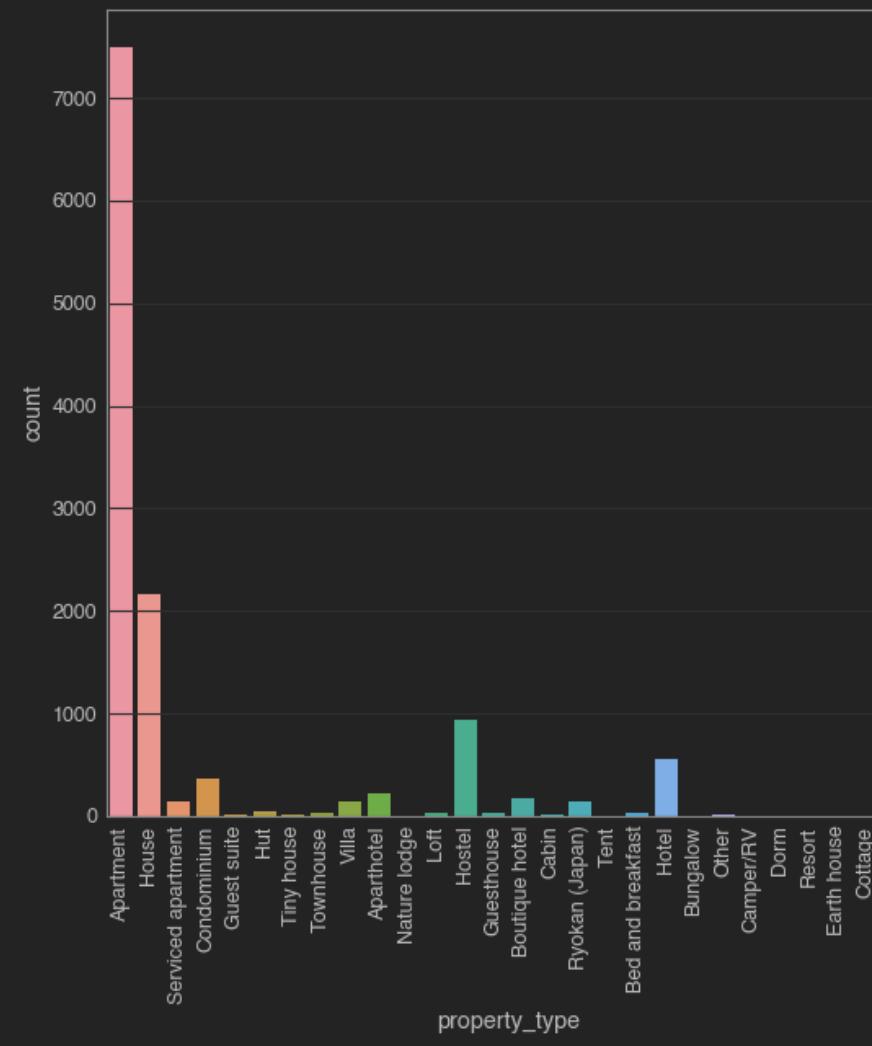
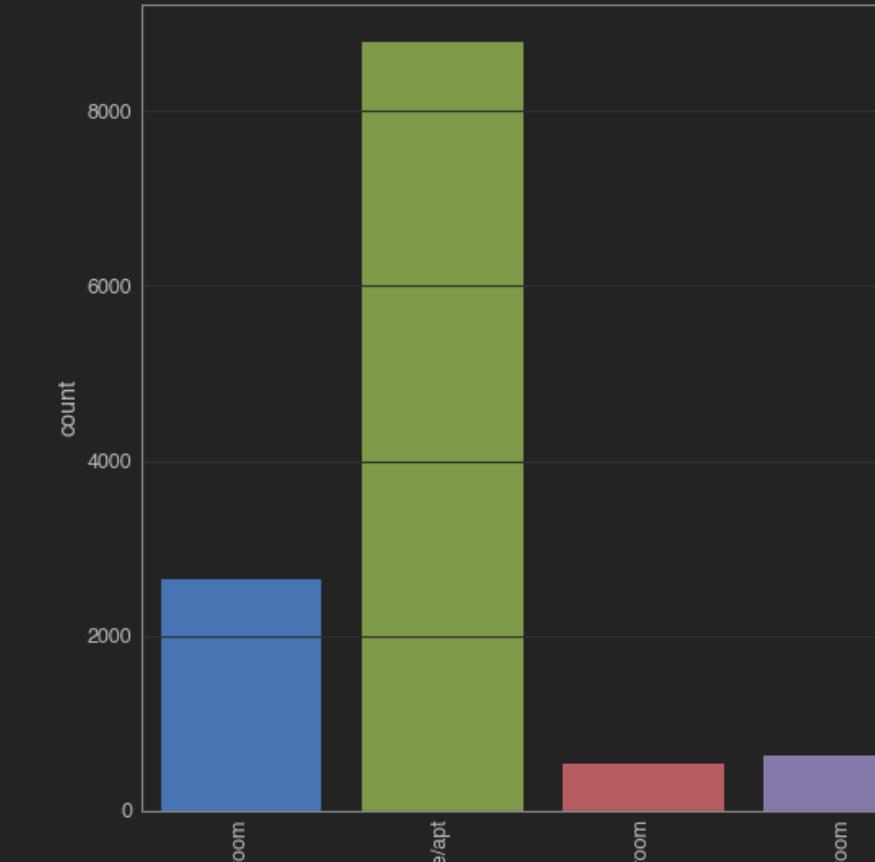
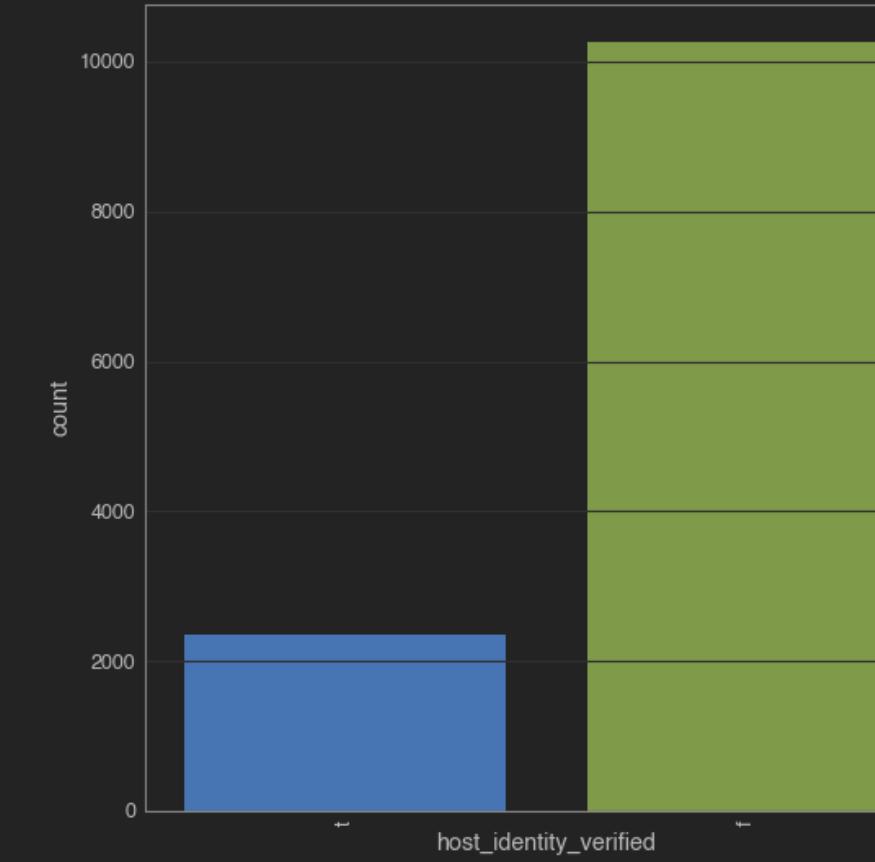
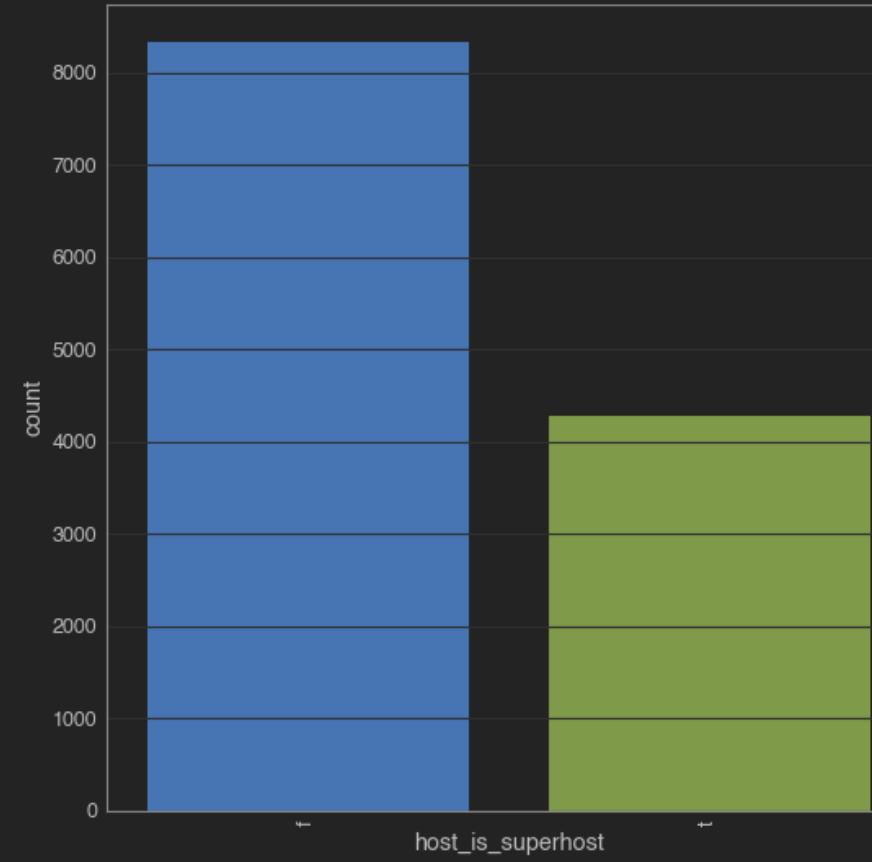
Airbnb vs Venue

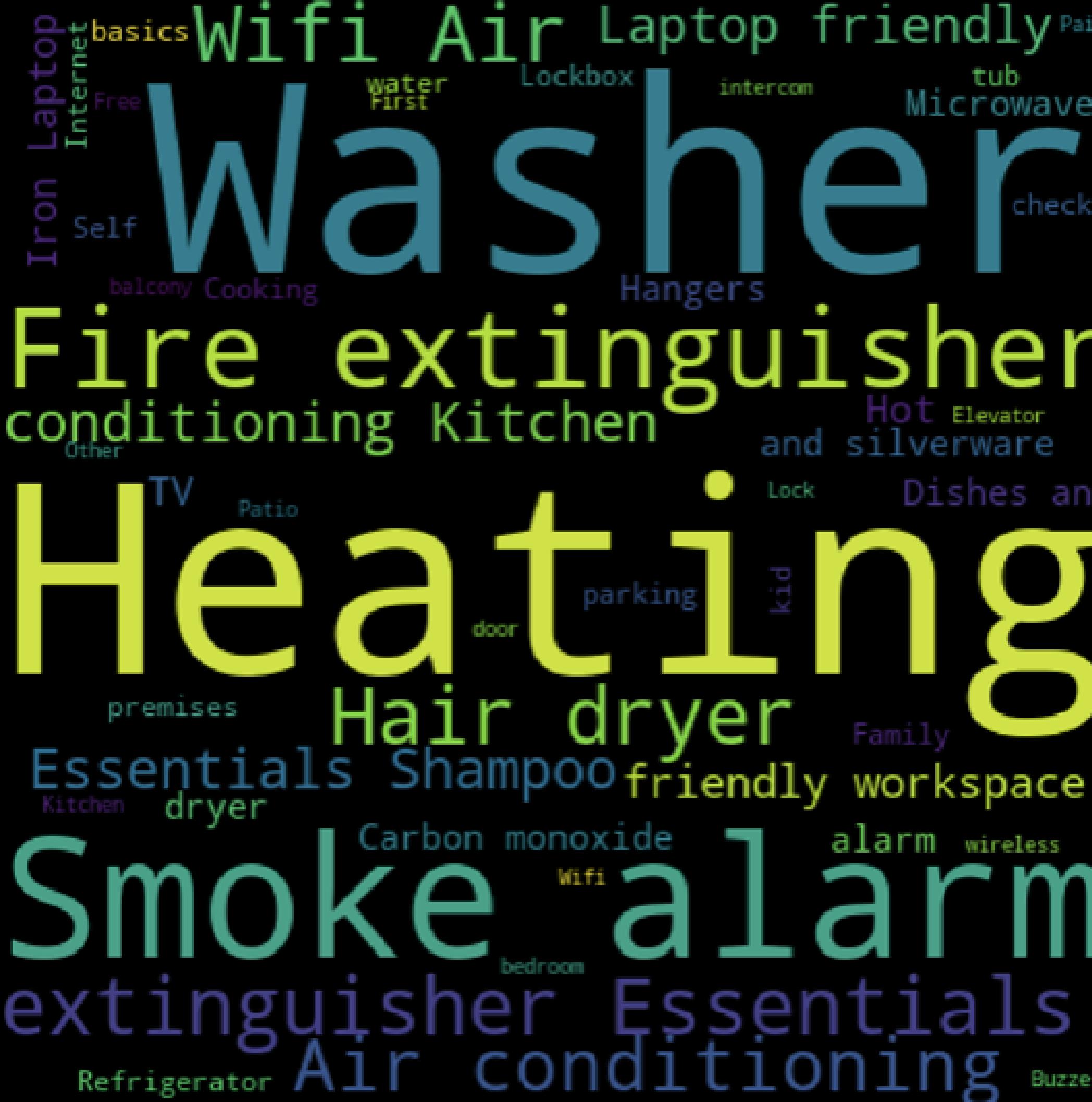
Berdasarkan bleacherreport.com, ada 5 cabang olah raga yang paling diminati dalam pesta olimpiade, yaitu Football, Weightlifting, Athletics, Swimming, Rugby dan tentunya satu cabang baru asal Jepang yaitu Karate.

NUNICAT



DATA EXPLORATION





20

Amenities

kelengkapan yang ada di kamar tidur sebuah penginapan yang merupakan fasilitas untuk membuat tamu lebih betah tinggal di kamar penginapan.

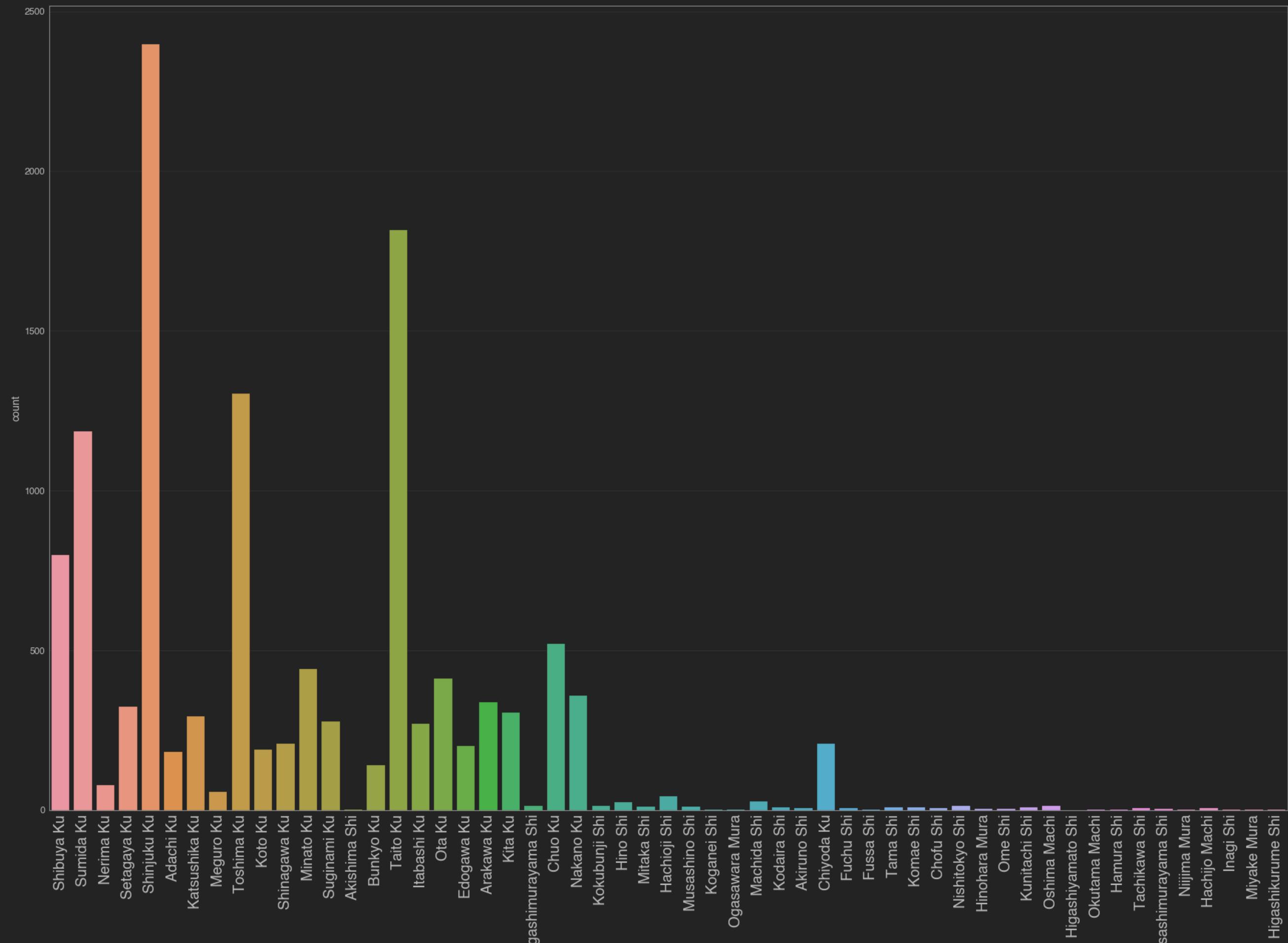
Shinjuku
2398

Taito
1815

Toshima
1304

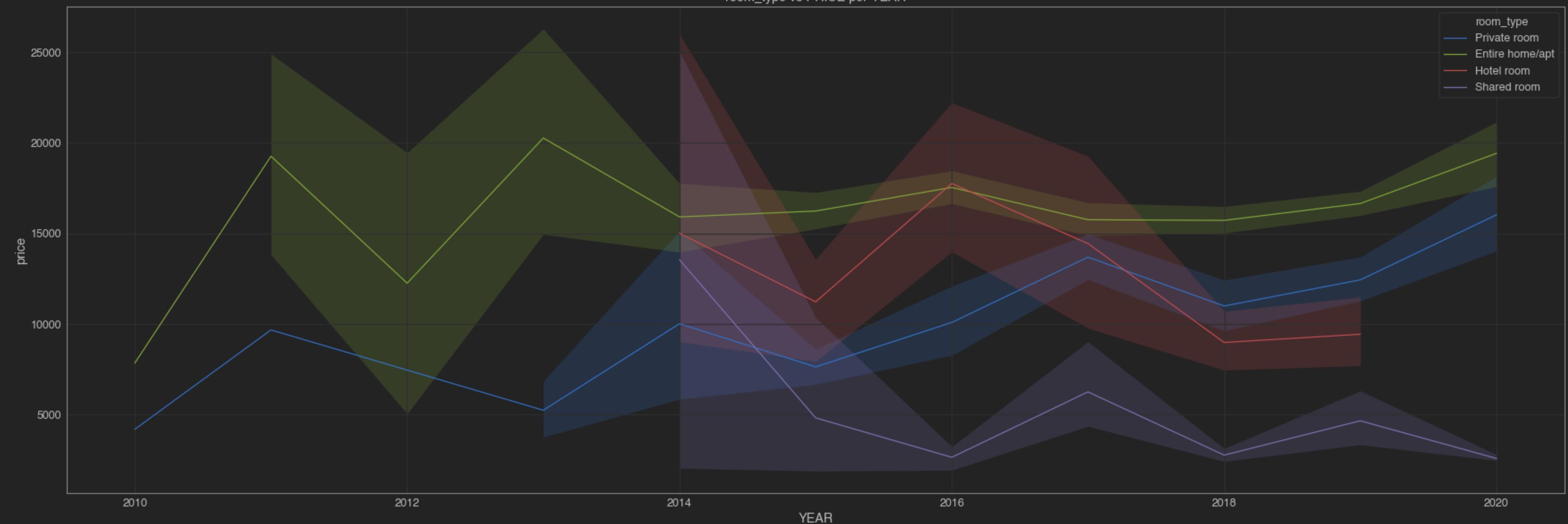
Sumida
1185

Shibuya
800



21

room_type vs PRICE per YEAR



	min price	max price	mean price	sum price
month				
1	2042.0	32035.000	15491.777778	278852.000
2	6987.0	40178.875	16900.984375	270415.750
3	2049.0	40178.875	12363.981618	840750.750
4	3977.0	33862.000	11621.044444	1045894.000
5	4945.0	40178.875	11209.377660	526840.750
6	1827.0	40178.875	11173.014254	1273723.625
7	4515.0	40178.875	16357.625000	1815696.375
8	1827.0	40178.875	14080.351190	2365499.000
9	1397.0	40178.875	14789.815789	843019.500
10	2795.0	40178.875	12795.682796	1189998.500
11	1720.0	40178.875	13972.838170	1564957.875
12	2795.0	40178.875	15773.249313	2870731.375

2018

month	min	max	mean	sum
	price	price	price	price
1	2042.0	40178.875	17562.855392	895705.625
2	2365.0	40178.875	22095.617188	1767649.375
3	3655.0	40178.875	15591.630208	1496796.500
4	2472.0	40178.875	15703.958621	2277074.000
5	3010.0	40178.875	19318.091176	1642037.750
6	1720.0	40178.875	10858.967105	1031601.875
7	2042.0	40178.875	12425.856831	2137247.375
8	3010.0	40178.875	18100.585938	2606484.375
9	2257.0	40178.875	12823.788366	1295202.625
10	2257.0	40178.875	16555.264019	1771413.250
11	3010.0	40178.875	14115.551389	1270399.625
12	3117.0	40178.875	12171.269231	1107585.500

2019

month	min	max	mean	sum
	price	price	price	price
1	2472.0	40178.875	18050.465461	2743670.750
2	3010.0	40178.875	16437.216584	1660158.875
3	1505.0	40178.875	20008.659574	940407.000
4	3117.0	40178.875	30352.925000	303529.250

2020

Dekat										Jauh										Menengah									
2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2012	2014	2015	2016	2017	2018	2019	2020	2012	2013	2014	2015	2016	2017	2018	2019	2020		
2	20	16	57	265	825	973	857	1548	1800	510	1	6	8	1	8	12	7	2	1	17	26	86	81	45	135	154	63		

Feature Engineering

01

Handling
Outliers

02

Recategorize

05

Encode

06

Splitting Data

03

Adding Feature

04

Extract Feature

07

Scaling

08

Modeling

23

Model & Evaluation Metrics

24

Best Model

XGBoost

01

R-Squared

0.785

02

RMSE

0.4

03

MSE

0.2

04

MAE

0.28

BEFORE

R2 SCORE GIO : 0.012077430845655823
MAE SCORE GIO : 16448.17413918262
MSE SCORE GIO : 2875505864.2648786
RMSE SCORE GIO : 53623.743474927884

- Modeling dilakukan untuk memprediksi harga Airbnb di Tokyo dengan ketepatan 0.785
- Dari total 106 kolom, kolom telah di seleksi dan di drop menjadi 36 berdasarkan uji korelasi, asosiasi, dan persentase NaN
- Pengusaha yang menuruti aturan Airbnb berjumlah 7526 dan sesuai dengan berita terkait pembatalan Airbnb
- Dari hasil analisa EDA terdapat 5 area yang profit yaitu Shinjuku,Taito,Shibuya,Toshima,dan Sumida berdasarkan jumlah sewa Airbnb di kota tersebut.
- Tipe ruangan yang diperkirakan sangat profit untuk 2020 adalah masih Entire home/Apt dan Private Room
- Kedekatan Airbnb terhadap Stadium sangat nyata pengaruhnya
- Airbnb yang berlokasi dekat dengan Stadium memiliki kenaikan jumlah yang sangat pesat pertahunnya. Untuk 3 tahun terakhir 2017,2018,2019 jumlahnya terus naik 857,1548,1800. Dan untuk 2020 yang mana datanya cuma sampai bulan ke 4 sudah mencapai 510. atau 1/3 dari tahun 2019.
- Lalu untuk rata-rata harganya pun untuk yang berlokasi dekat naik terus melonjak setiap tahunnya akan tetapi dua tahun terakhir yaitu 2019-2020 awal naiknya paling kontras yaitu 15257 ke 18669. Yaitu sebesar 477.680 apabila di rupiah kan.
- Untuk akomodasi sendiri ditahun 2020 untuk jarak yang dekat naik menjadi 8144.715909 setelah sebelumnya 7483.630068 di tahun 2019/ tahun pengumuman Tokyo menjadi Host 2020 Olympics dan 3850.669118 di tahun 2018. Kenaikkan nya 2 hampir kali lipat.
- Untuk bedrooms dari tahun 2019 12953.239739 untuk satu kamar, naik menjadi 16368.781250.
- Untuk area sendiri rata-rata harga termahal sekarang adalah Shibuya dengan 26317.253788
- Recommendation System adalah satu sarana untuk dapat melihat space yang benefit berdasarkan lokasi dan review score terbaik / 100 dengan metode kemiripan/kesamaan

Conclusion