

Houses for rent in Madrid

Global Master in Big Data & Business Analytics

Machine Learning I

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TEAM A

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Introduction

The purpose of this executive summary is to explain the model used to **estimate house rental prices** based on a set of explanatory variables related with their characteristics. The dataset used has more than 2000 houses that are available for rent in Madrid. Team A followed the following **machine learning process** to build a Linear Regression Model:

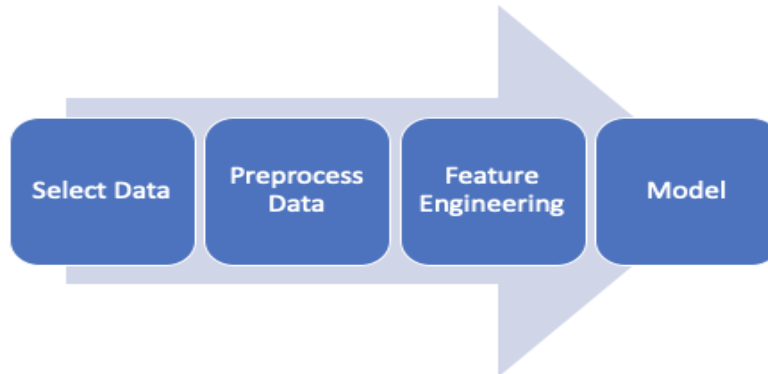


Illustration: Process of Machine Learning

Key Findings

- *The model allows users to estimate rental prices of properties not included in the dataset yet have similar characteristics as those houses in the dataset*

Pre-processing

After selecting the data, Team A completed data pre-processing, which includes checking for missing values, checking for categorical variables, and feature scaling. Out of 15 features, there are 6 features that have missing values: Number, Area, Bedrooms, Outer, and Elevator. For the **numerical features** that are missing values, such as Bedrooms, **missing values were imputed with the average of values**. Similar to ID and Address, since Number does not provide any added value, Team A considered it irrelevant for the analysis and thus, excluded the feature model. For the **categorical features** that are missing values, such as Area, Outer, Floor, and Elevator, **missing values were imputed with the most frequent values** and handled using **dummy encoding**. In regard to feature scaling, Team A decided to apply standard rescaling to numerical features.

Feature engineering

Although there were originally 14 explanatory variables, Team A **decided to only use 10 explanatory variables**. The variables Team A excluded are Address, Number, District, and ID (Rent is the dependent variable, meaning that it was excluded as an explanatory variable by default). **Team A also did not create additional variables**. Here is an illustration of the explanatory variables in the model:

| Input features | | | |
|----------------|--------|--------------|------------------------------|
| Floor | Input | "A" Category | Dummy-encode, impute missing |
| Penthouse | | "A" Category | Dummy-encode, impute missing |
| Outer | | "A" Category | Dummy-encode, impute missing |
| Semidetached | | "A" Category | Dummy-encode, impute missing |
| Duplex | | "A" Category | Dummy-encode, impute missing |
| Area | | "A" Category | Dummy-encode, impute missing |
| Sq. Mt | | # Numeric | Avg-std rescaling |
| Bedrooms | | # Numeric | Avg-std rescaling |
| Elevator | | "A" Category | Dummy-encode, impute missing |
| Cottage | | "A" Category | Dummy-encode, impute missing |
| District | | "A" Category | Dummy-encode, impute missing |
| Rent | Target | # Numeric | |

Table: Input features

In an effort to **prevent collinearity**, or a condition in which some of the independent variables are highly correlated, Team A decided **to exclude one of the geographic variables: District**. Team A decided to exclude District over Area given that the later is a more granular explanatory variable, representing a smaller geographic region in Madrid than Area.

Model

The algorithm used to build a linear regression model in Dataiku Data Science Studio (DSS) was the **Ordinary Least Squares (OLS) regression algorithm**. Given that the goal is to explain house rental prices, the target of this model is the variable Rent. The train-test ratio is 80-20, which is the default option in DSS. Roughly 1748 rows were used as the training set and 440 rows were used for the test set. The method of **optimization is based on the R2** since it tends to be the most prominent evaluator for linear regression models.

Coefficients

In linear regression, **coefficients are the values per explanatory variable that change the dependent variable**. For example, per the following illustration, if a house in Madrid does not have a

Penthouse (a binary explanatory variable), the rental price decreases by roughly 273 Euros. Adversely, a house in the Area of Jerónimos, the rental price increases by roughly 1624 Euros.

| Regression coefficients | |
|-------------------------|-------------|
| Variable | Coefficient |
| Area is Jerónimos | 1,624 |
| Area is Recoletos | 1,416 |
| Area is El Viso | 1287 |
| Area is Nino Jesus | 1020 |
| Area is Castellana | 1019 |
| Area is El Viso | 964 |
| Area is Almagro | 921 |

Table: Sample of Regression Coefficients

Evaluation Metrics

Given that Team A built a linear **regression model**, there are several evaluation metrics to consider, such as Mean Absolute Error (MAE), Mean Squared Error (MSE), and R^2 ; however, the metrics Team A **decided to optimize the hyperparameters for was R^2** . The following illustration details the evaluation metrics of the linear regression model:

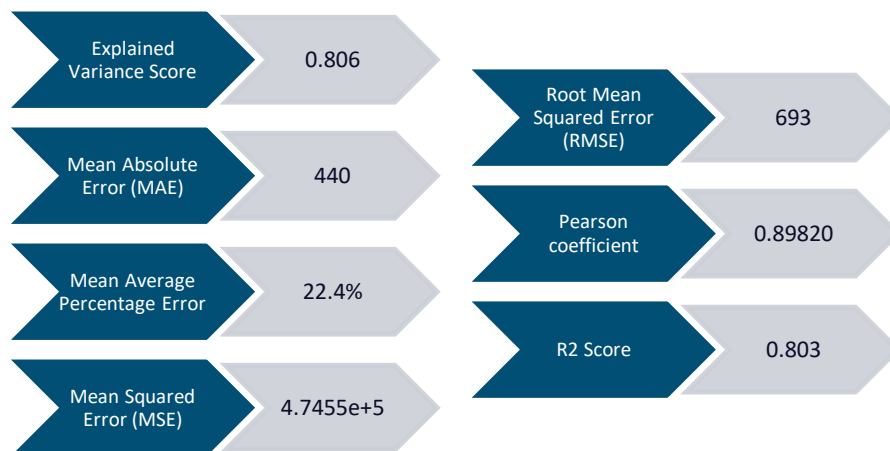


Illustration: Detailed Metrics

MAE, MSE, & R2

The **MAE** is the difference between the predicted values and observed values, or the “error” between the predicted values and the observed values. A MAE of 440 is reasonably good knowing that **lower MAE values are better**. Previously run models with less significant variables yielded a greater MAE than 440. The MSE is the summation of the square of distance between predicted values and observed values. An MSE of 4.7455e+5 is fairly good knowing that the **lower MSE values are better**. Previously run models with less significant variables yielded a greater MSE than 47455e+5. **The R2 explains how well the explanatory variables explain the variability** in the dependent model. An R2 of roughly 80% is satisfactorily good knowing that R2 scores closer to 1 are better.

Conclusions

Given that the explanatory variables explain roughly 80% of the variability in the dependent variable, Team A has a good OLS model. As a result, the value add of this model is twofold:

The model allows for the **comparison of rental prices of properties with similar characteristics** in different

The model helps identify the **most and the least expensive districts** in Madrid and recognize the **key features** that affects the variability of the house rentals in Madrid

For example, a house in Madrid, particularly in the Area of Colina, might have the following characteristics:

| Area | Bedrooms | Sq. Mt | Floor | Outer | Elevator | Penthouse | Cottage | Duplex | Semi Detached |
|--------|----------|--------|-------|-------|----------|-----------|---------|--------|---------------|
| Colina | 2 | 90-110 | 3 | Yes | Yes | No | No | No | No |

Table: House Characteristics Example

The model has predicted the rental price of houses with similar characteristics in the area of Colina at roughly 1,290 Euros. This means that rental properties in Colina with similar characteristics have an estimated rental price of 1,290 Euros. Unfortunately, there will be instances in which the predicted value is greater than the actual value; however, **the OLS modelling method is one of the best possible options to determine an estimated rental price**. Furthermore, the **model yields a comparison of estimated rental prices of properties in different Areas**, as shown in the Tableau Dashboard Team A created called [Madrid's Houses Rentals](#). If a potential tenant wanted a rental property with the aforementioned characteristics but had a specific willingness to pay (WTP), this model could help them evaluate their options based on their WTP.

Technical Annex

Data Dictionary

| Field Name | Data Type | Data Format | Field Size | Description | Example |
|--------------|-----------|-------------|------------|--------------------|--------------------------------|
| ID | Integer | | | Identifier | 3 |
| District | Text | | | District in Madrid | Ciudad Lineal |
| Address | Text | | | Address in Madrid | Piso en calle de Vicente Muzas |
| Number | Integer | | | House # | 4 |
| Area | Text | | | Area in Madrid | Colina |
| Rent | Integer | | | Monthly rent | 1300 |
| Bedrooms | Integer | | | # of bedrooms | 2 |
| Sq.Mt | Integer | | | Square meters | 100 |
| Floor | Integer | | | # of floors | 3 |
| Outer | Integer | | | Has outer space | 1 |
| Elevator | Integer | | | Has elevator | 1 |
| Penthouse | Integer | | | Has penthouse | 0 |
| Cottage | Integer | | | Has cottage | 0 |
| Duplex | Integer | | | Is a duplex | 0 |
| Semidetached | Integer | | | Is semidetached | 0 |

Regression Summary Table

The regression summary table provides a valuable insight into the model, including: **Coefficient, Standard Error and P Value (Significant level)**.

Out[19]: OLS Regression Results

| | | | |
|-------------------|------------------|---------------------|-----------|
| Dep. Variable: | y | R-squared: | 0.801 |
| Model: | OLS | Adj. R-squared: | 0.788 |
| Method: | Least Squares | F-statistic: | 59.79 |
| Date: | Thu, 09 Jul 2020 | Prob (F-statistic): | 0.00 |
| Time: | 08:06:05 | Log-Likelihood: | -17378. |
| No. Observations: | 2188 | AIC: | 3.503e+04 |
| Df Residuals: | 2049 | BIC: | 3.582e+04 |
| Df Model: | 138 | | |
| Covariance Type: | nonrobust | | |

| | coef | std err | t | P> t | [0.025 | 0.975] |
|----------------------|-----------|---------|--------|-------|----------|----------|
| const | 415.2375 | 141.320 | 2.938 | 0.003 | 138.091 | 692.384 |
| Bedrooms | 80.4286 | 24.362 | 3.301 | 0.001 | 32.652 | 128.205 |
| Sq.Mt | 1264.2635 | 30.704 | 41.176 | 0.000 | 1204.049 | 1324.478 |
| Penthouse_value_0 | 91.5887 | 75.478 | 1.213 | 0.225 | -56.432 | 239.609 |
| Penthouse_value_1 | 323.6487 | 79.783 | 4.057 | 0.000 | 167.185 | 480.113 |
| Semidetached_value_0 | 287.9235 | 103.568 | 2.780 | 0.005 | 84.814 | 491.033 |
| Semidetached_value_1 | 127.3140 | 113.397 | 1.123 | 0.262 | -95.072 | 349.700 |

Table: Regression Summary

**We have exported our model into python to get the regression summary table, please find attached python file for full view of the summary table.*

***We acknowledge the values from the summary table are very close to what DSS UI highlights, however, they are not 100% exact.*

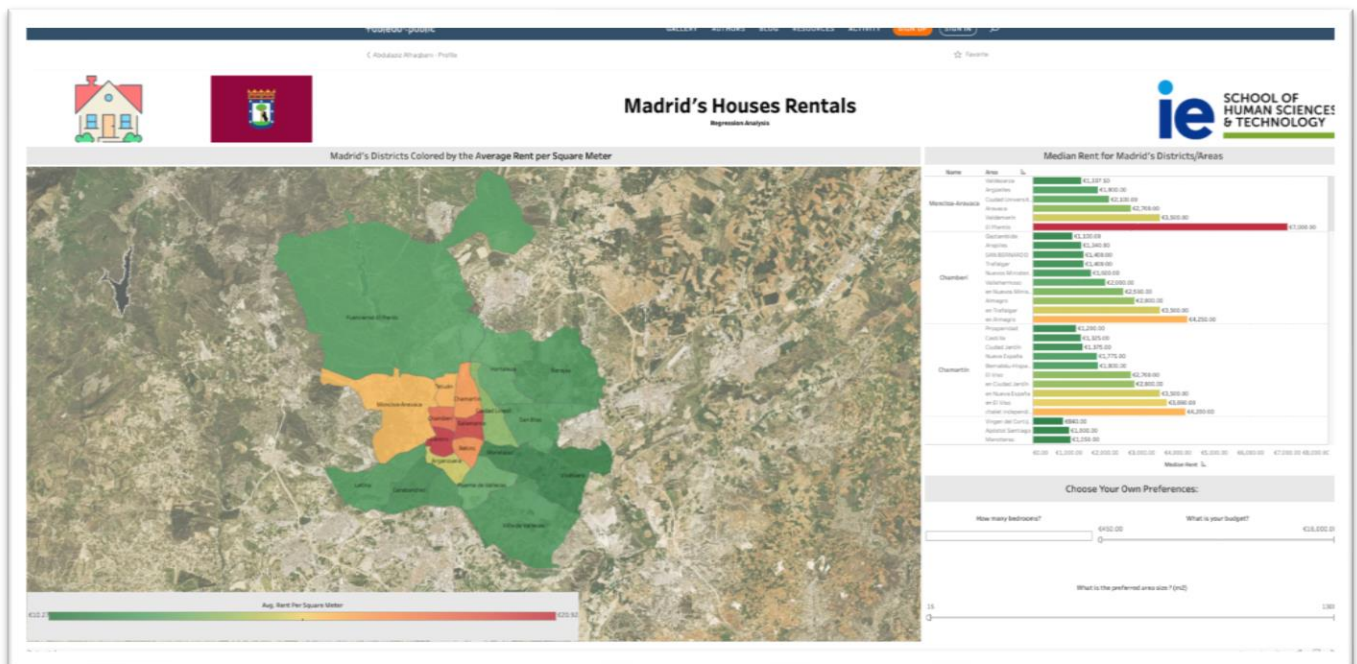
Detailed Metrics

| ML I: Group Assignment II | |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Linear Regression / Models / Ordinary Least Squares | |
| Summary | |
| INTERPRETATION | |
| Regression coefficients | |
| Partial dependence | |
| Subpopulation analysis | |
| PERFORMANCE | |
| Scatter plot | |
| Error distribution | |
| Detailed metrics | |
| MODEL INFORMATION | |
| Data preparation | |
| Features | |
| Algorithm | |
| Training information | |
| Explained Variance Score | 0.80554 |
| Best possible score is 1.0, lower values are worse | |
| Mean Absolute Error (MAE) | 440 |
| Average of the absolute value of the regression error | |
| Mean Average Percentage Error | 22.4% |
| Average of the absolute value of the regression error | |
| Mean Squared Error (MSE) | 4.7455e+5 |
| Average of the squares of the errors | |
| Root Mean Squared Error (RMSE) | 689 |
| Root of the above measure | |
| Root Mean Squared Logarithmic Error (RMSLE) | - |
| Root of the average of the squares of the natural log of the regression error | |
| Pearson coefficient | 0.89820 |
| Correlation coefficient between actual and predicted values. +1 = perfect correlation, 0 = no correlation, -1 = perfect anti-correlation | |
| R2 Score | 0.80319 |
| (Coefficient of determination) regression score function | |

Test Data with Predictions

| Linear Regression / Models / Ordinary Least Squares | | | | | | | | | | | | | | | Report | | Predicted data | | Charts | Full Screen | 100% | defcopy | | |
|-----------------------------------------------------|--------------|-----------------------------------------------|-------------------|--------------|------|----------|------|-------|-------|----------|-----------|---------|--------|------------|-------------------|-------------------|---------------------|-------------|-----------------|-------------|------|---------|-------------------|--|
| | | | | | | | | | | | | | | | | | | | | | | | 446 matching rows | |
| id | district | Address | Number | area | rent | bedrooms | sqft | floor | water | elevator | penthouse | ceiling | duplex | sandwiched | predicted | error | relative_error | error_decls | abs_error_decls | | | | | |
| id | dist | Address | number | area | rent | bedrooms | sqft | floor | water | elevator | penthouse | ceiling | duplex | sandwiched | predicted | error | relative_error | error_decls | abs_error_decls | | | | | |
| 3 | Ciudad Urdaz | Plazo en calle de Vicente Muñoz | 4 | Colima | 1200 | 2 | 200 | 2.0 | 1 | 1 | 0 | 0 | 0 | 0 | 1291.394789187650 | 9.4622208812235 | 0.007249329356345 | 3 | 0 | | | | | |
| 4 | Ciudad Urdaz | Plazo en calle de San Blas | San Pascual | 1600 | 3 | 120 | 4.0 | 1.0 | 1 | 1 | 0 | 0 | 0 | 0 | 1745.57746830642 | -68.5771380368423 | -0.039861757893514 | 2 | 0 | | | | | |
| 4 | Ciudad Urdaz | Alto en calle de San Blas | San Pascual | 1800 | 3 | 301 | 5.0 | 1.0 | 1 | 1 | 1 | 0 | 0 | 0 | 1551.09948437004 | 342.99543029616 | 0.380138289178333 | 4 | 1 | | | | | |
| 17 | Ciudad Urdaz | Plazo en calle de San Blas | San Pascual | 200 | 1 | 50 | 1.0 | 1.0 | 1 | 1 | 0 | 0 | 0 | 0 | 815.539999920046 | 26.4749999999947 | 0.0324711111111111 | 3 | 0 | | | | | |
| 13 | Ciudad Urdaz | Plazo en calle de Arturo Santa | San Pascual | 1700 | 3 | 120 | 1.0 | 1.0 | 1 | 1 | 1 | 0 | 0 | 0 | 2022.13337033333 | -521.13337033333 | -0.256938317111111 | 2 | 0 | | | | | |
| 22 | Ciudad Urdaz | Plazo en calle de San Blas | Veritas | 830 | 1 | 60 | 1.0 | 1.0 | 1 | 1 | 0 | 0 | 0 | 0 | 795.76144237350 | 20.2838888624939 | 0.04722993872975 | 3 | 0 | | | | | |
| 23 | Ciudad Urdaz | Plazo en calle de San Blas | Concepción | 1300 | 3 | 200 | 1.0 | 1.0 | 1 | 1 | 0 | 0 | 0 | 0 | 1215.077442123978 | 4.92047887842847 | 0.016188837446642 | 3 | 0 | | | | | |
| 27 | Ciudad Urdaz | Plazo en calle de San Blas (San Blas) | San Pascual | 1300 | 3 | 45 | 4.0 | 1.0 | 1 | 1 | 0 | 0 | 0 | 0 | 887.523492109881 | 262.471878910461 | 0.2861153849672 | 4 | 0 | | | | | |
| 28 | Ciudad Urdaz | Plazo en calle de San Blas | Concepción | 1200 | 3 | 70 | 3.0 | 1.0 | 1 | 1 | 0 | 0 | 0 | 0 | 904.29776661770 | -50.4429776661770 | -0.0442977661770 | 3 | 1 | | | | | |
| 40 | Ciudad Urdaz | Alto en Arturo Santa | Concepción | 3000 | 5 | 400 | 4.0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 466.592400000001 | -126.673240000001 | -0.271458333333333 | 0 | 3 | | | | | |
| 51 | Ciudad Urdaz | Diglas en San Juan Bautista | San Juan Bautista | 2000 | 2 | 200 | 2.0 | 1.0 | 1 | 1 | 0 | 0 | 0 | 0 | 3471.62250928627 | -271.62250928627 | -0.0804944042146 | 2 | 1 | | | | | |
| 54 | Ciudad Urdaz | Plazo en calle de San Blas | 4 | Veritas | 680 | 1 | 55 | 3.0 | 1 | 1 | 0 | 0 | 0 | 0 | 744.421311322647 | 64.4213113226476 | -0.086496739737751 | 3 | 0 | | | | | |
| 60 | Ciudad Urdaz | Plazo en calle de San Blas | San Pascual | 300 | 1 | 270 | 1.0 | 1.0 | 1 | 1 | 0 | 0 | 0 | 0 | 224.244848484848 | -10.2448484848485 | -0.045652173913043 | 4 | 1 | | | | | |
| 67 | Ciudad Urdaz | Chouffon en calle de San Blas | Quilamas | 700 | 1 | 40 | 1.0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 697.744951251254 | -8.744951251254 | -0.012549446709 | 3 | 0 | | | | | |
| 70 | Ciudad Urdaz | Plazo en calle de Cigü | Quilamas | 700 | 1 | 45 | 0.0 | 1.0 | 1 | 1 | 0 | 0 | 0 | 0 | 654.39466775884 | 55.6522000113994 | 0.074484479421127 | 3 | 0 | | | | | |
| 72 | Ciudad Urdaz | Plazo en avenida de San Blas | 23 | San Pascual | 1600 | 3 | 120 | 6.0 | 1 | 1 | 1 | 0 | 0 | 0 | 1765.57746830642 | -68.5771380368423 | -0.039861757893514 | 2 | 0 | | | | | |
| 74 | Ciudad Urdaz | Plazo en plaza de San Blas | 6 | Pueblo Nuevo | 700 | 1 | 55 | 1.0 | 1 | 1 | 0 | 0 | 0 | 0 | 817.800884870002 | -64.1099999999997 | -0.07821598442732 | 3 | 0 | | | | | |
| 79 | Ciudad Urdaz | Plazo en calle de San Blas | Veritas | 830 | 3 | 62 | 1.0 | 1.0 | 1 | 1 | 0 | 0 | 0 | 0 | 1062.294677666177 | -152.294677666177 | -0.1438386713408 | 3 | 1 | | | | | |
| 87 | Ciudad Urdaz | Plazo en LUPUZ DE HONOS | Colima | 900 | 2 | 65 | 1.0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1055.8018843877 | -133.8018843877 | -0.121461153581974 | 4 | 0 | | | | | |
| 116 | Ciudad Urdaz | Plazo en plaza PLATON | San Pascual | 700 | 2 | 69 | 2.0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 122.82058996128 | -42.82058996128 | -0.3509531184004 | 1 | 2 | | | | | |
| 88 | Ciudad Urdaz | Plazo en Normal | San Juan Bautista | 1200 | 3 | 78 | 3.0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 96.0989942432 | 203.9193320268 | 0.2099232344974 | 4 | 0 | | | | | |
| 91 | Ciudad Urdaz | Plazo en Normal | 1 | Colima | 200 | 1 | 80 | 2.0 | 1 | 1 | 0 | 0 | 0 | 0 | 115.6532221927 | -25.65322219268 | -0.2218788429296 | 2 | 0 | | | | | |
| 122 | Pueblita | Plazo en Las Tablas | La Paz | 1250 | 2 | 201 | 3.0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 157.2864617463 | 839.1574530204 | 0.51761376358873 | 4 | 1 | | | | | |
| 126 | Pueblita | Plazo en Las Tablas | Las Tablas | 1200 | 2 | 260 | 3.0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1768.2014812943 | -668.20148129431 | -0.380622439956433 | 1 | 2 | | | | | |
| 144 | Pueblita | Alto en Las Tablas | Las Tablas | 1100 | 1 | 70 | 6.0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1267.7625019394 | -103.7625019394 | -0.08249278353004 | 3 | 0 | | | | | |
| 144 | Pueblita | Plazo en calle de San Blas | 900 | 2 | 80 | 8.0 | 1.0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 390.9577646037 | 57.95776460373 | 0.14704600273 | 1 | 2 | | | | | |
| 144 | Pueblita | Plazo en LUPUZ DE HONOS | La Paz | 800 | 1 | 41 | 4.0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 756.4671179640 | -129.4671179640 | -0.1712261051762 | 3 | 0 | | | | | |
| 144 | Pueblita | Casa o chalet (indistinto) en calle de La Paz | Missouri | 2800 | 4 | 200 | 4.0 | 2.0 | 1 | 1 | 1 | 0 | 0 | 0 | 388.90843498181 | 1345.34943498181 | 0.35047494519376 | 6 | 4 | | | | | |
| 160 | Pueblita | Plazo en avenida Manzanera de la Escalera | Monterrey | 1300 | 3 | 103 | 1.0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1515.11379357227 | -165.11379357227 | -0.109286138950643 | 2 | 0 | | | | | |
| 161 | Pueblita | Plazo en avenida del Santuario de Guadalupe | Monterrey | 1300 | 3 | 125 | 3.0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1601.30388941095 | -107.303889410952 | -0.072202323278098 | 3 | 0 | | | | | |
| 161 | Pueblita | Plazo en calle de San Blas | La Paz | 2200 | 4 | 60 | 5.0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 2215.44580358162 | -45.44580358162 | -0.020494286174614 | 4 | 1 | | | | | |
| 165 | Pueblita | Plazo en calle de San Blas | 32 | Flor | 700 | 2 | 60 | 3.0 | 1 | 1 | 1 | 0 | 0 | 0 | 84.943819151332 | 272.043819151332 | 0.3204489496851 | 4 | 0 | | | | | |
| 171 | Pueblita | Plazo en calle de San Blas | La Paz | 1300 | 3 | 120 | 5.0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1204.76112968438 | -209.268132968438 | -0.1868904212689 | 4 | 1 | | | | | |
| 174 | Pueblita | Plazo en calle de San Blas de Candidech | 6 | Las Tablas | 1200 | 2 | 80 | 3.0 | 1 | 1 | 0 | 0 | 0 | 0 | 1035.80858108949 | -140.08431108949 | -0.13753494813205 | 3 | 0 | | | | | |
| 175 | Pueblita | Plazo en Pedro Ruiz | La Paz | 1300 | 4 | 305 | 2.0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1784.8438480003 | -111.2861310483 | -0.00919343316690 | 3 | 0 | | | | | |
| 177 | Pueblita | Plazo en calle de San Blas | 33 | Las Tablas | 1100 | 3 | 90 | 3.0 | 1 | 1 | 0 | 0 | 0 | 0 | 1301.138811872066 | -4.138811872066 | -0.003176866317628 | 2 | 0 | | | | | |
| 190 | Pueblita | Plazo en calle de San Blas | 20 | Las Tablas | 945 | 1 | 90 | 0.0 | 1 | 1 | 0 | 0 | 0 | 0 | 1075.5397964867 | -67.5397964867 | -0.06269696904004 | 2 | 0 | | | | | |
| 196 | Pueblita | Plazo en Pueblita | 2000 | 4 | 278 | 5.0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 2109.38898617247 | -49.38898617249 | -0.02378894838823 | 2 | 1 | | | | | |
| 201 | Pueblita | Plazo en calle de San Blas | 3 | Pedregal | 850 | 2 | 60 | 3.0 | 1 | 1 | 0 | 0 | 0 | 0 | 466.73188494045 | 294.744712073752 | 0.3048446173551 | 3 | 0 | | | | | |
| 204 | Pueblita | Plazo en calle de San Blas | Monterrey | 1200 | 3 | 118 | 3.0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1418.8478487923 | -64.8478487923 | -0.0456933333333333 | 4 | 1 | | | | | |
| 222 | Pueblita | Plazo en calle de San Blas | 18 | Pueblita | 800 | 2 | 70 | 1.0 | 1 | 1 | 0 | 0 | 0 | 0 | 68.83821835059 | 221.07183505925 | 0.32095460314305 | 4 | 0 | | | | | |
| 214 | Pueblita | Plazo en La Paz | La Paz | 2000 | 4 | 270 | 1.0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1943.880474664652 | -43.880474664652 | -0.02237087148757 | 3 | 0 | | | | | |
| 215 | Pueblita | Plazo en Pedregal | Pedregal | 300 | 3 | 95 | 1.0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 91.1243124312921 | 342.877112431292 | 0.3809814781391 | 4 | 1 | | | | | |
| 223 | Pueblita | Plazo en calle de San Blas | 3 | Flor | 900 | 4 | 300 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 134.124949572008 | 267.2049572008 | 0.20272336861979 | 2 | 0 | | | | | |
| 228 | Pueblita | Plazo en calle de San Blas | Flor | 37 | Flor | 400 | 1 | 80 | 1.0 | 1 | 0 | 0 | 0 | 0 | 105.46717648031 | -10.46717648031 | -0.097661368073 | 3 | 0 | | | | | |
| 232 | Pueblita | Chalet pequeño en Carillas | Carillas | 4900 | 5 | 300 | 4.0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 324.477679164050 | 1794.3202838954 | 0.550802201819 | 8 | 1 | | | | | |

Madrid's House Rentals



(click on illustration to visit Tableau Dashboard)