

Where is the data?

Domain



Listing sold by advertiser 2nd August 2019

SOLD - \$840,000

6/114-118 Crimea Road Marsfield NSW 2122

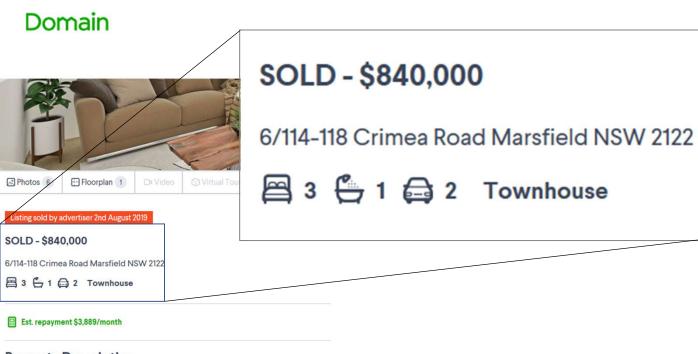


Est. repayment \$3,889/month

Property Description

Spacious, Tranquil & In A Prime Location

Where is the data?



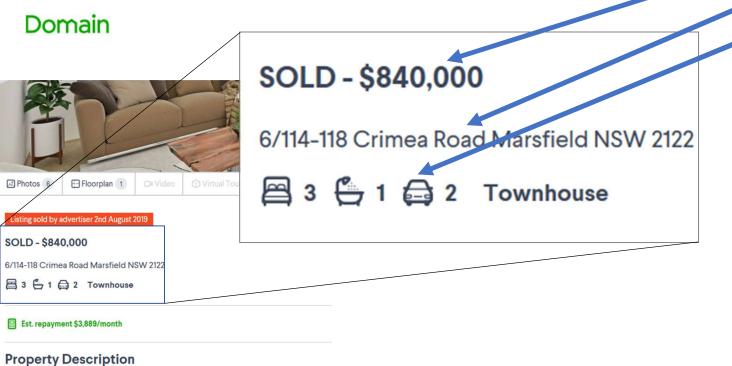
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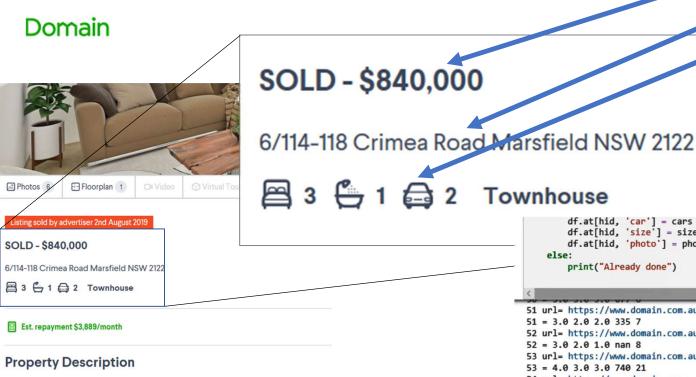
Spacious, Tranquil & In A Prime Location

This double brick townhouse is peacefully positioned in a well-maintained and pet frier School and buses to the city as well as having easy access to Macquarie Shopping Cent



Pricing Address Details





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School and buses to the city as well as having easy access to Macquarie Shopping Cent

Pricing **Address Details**

Scaping the data...

```
df.at[hid, 'photo'] = photos
        print("Already done")
51 url= https://www.domain.com.au/1-mathewson-street-eastgardens-nsw-2036-2015436462
51 = 3.0 2.0 2.0 335 7
52 url= https://www.domain.com.au/2-11-orange-street-eastwood-nsw-2122-2015430800
52 = 3.0 2.0 1.0 nan 8
53 url= https://www.domain.com.au/82-elanora-road-elanora-heights-nsw-2101-2015475554
53 = 4.0 3.0 3.0 740 21
54 url= https://www.domain.com.au/6-7-wilga-street-elanora-heights-nsw-2101-2015454813
54 = 3.0 2.0 2.0 4662 20
55 url= https://www.domain.com.au/14-14-16-onslow-avenue-elizabeth-bay-nsw-2011-2015438660
55 = 2.0 2.0 1.0 nan 11
```

df.at[hid, 'car'] = cars

df.at[hid, 'size'] = size

What we got...

Name	Туре	Description
Date	Date	When the property was sold
Suburb	Text	Name of suburb (529 unique, 263 with more than 10 properties)
Action	Text	{Before, At, After} Auction
Price	int	From \$310K to \$8460K (2,288 missing)
Profile	Text	{House, Unit, Townhouse, Villa, Semi, Duplex, Terrace, Studio}
Beds	Int	1 to 12 bedrooms
Baths	Int	1 to 7 bathrooms (70 missing)
Car	Int	1 to 9 car spaces (1,162 missing)
Size	Int	Size in m2 (largest 1M m2) (4,965 missing)
Photo	Int	1 to 67 photos provided (1,040 missing)

10,989 records, 8,701 with price, 4,288 complete

Categorical to Numerical

Property type Suburb

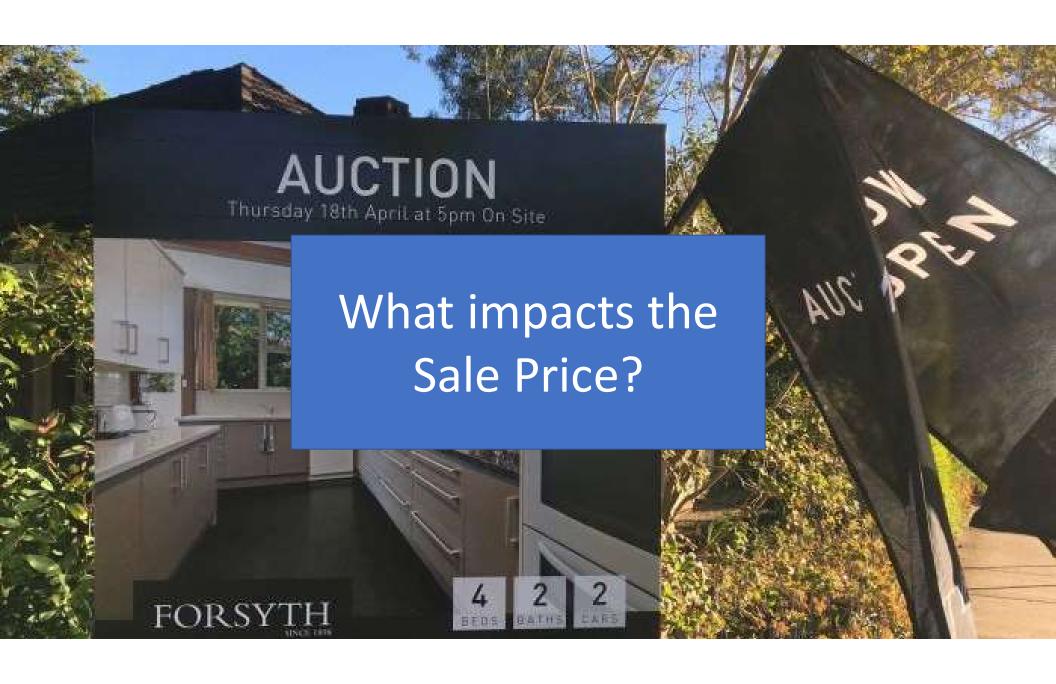
8 Unique values 529 unique

263 with > 10 properties

Added column Added column

Mean of price for property type Mean of suburb price

 $R^2 = 0.238$ $R^2 = 0.711$



When property is sold affects price?

Before 98% certainty

\$1,420,000 (n=2956, σ=729K)

At auction 3.0% less than Before $(n=4508, \mu=1,380K, \sigma=710K)$

After 98% certainty

3% less than Before $(n=71, \mu=1,370K, \sigma=720K)$

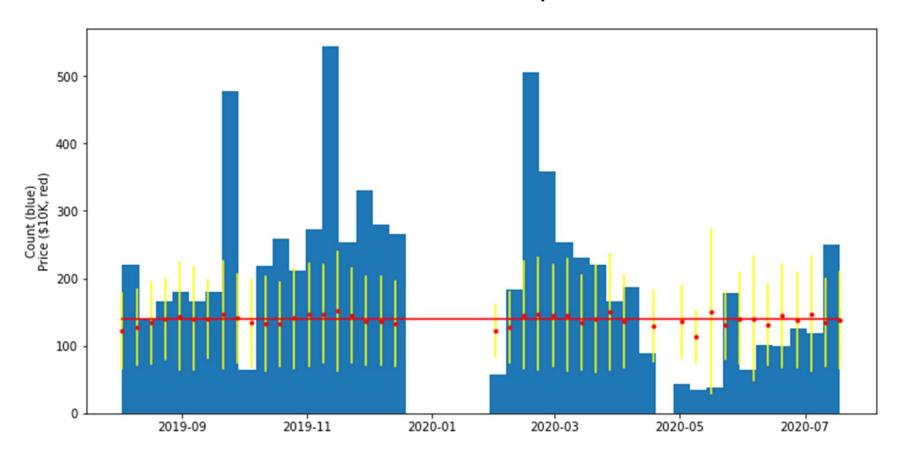
Location affects property price

All with >10 properties
Range \$400K (Carramar) to \$4,9230K (Linley Point)
Largest sample was Epping with 121 properties

Type of property affects price

Property Type	Mean value
Villa	\$920K
Unit	\$1,030K
Townhouse	\$1,130K
Duplex	\$1,190K
Semi	\$1,450K
House	\$1,570K
Terrace	\$2,260K

COVID-19 hasn't affected price





1. Start with your suburb

Suburb	Add
Carramar	\$433K
Claremont Md	Too little data
Epping	\$1724K
Hornsby	\$1344K
Manly	\$2178K
Milson Point	\$4072K
Sydney	\$1367K
Surry Hills	\$1448K
Vaucluse	\$4262K
Zetland	\$1226K

- 1. Start with your suburb
- 2. Add \$120K for every bedroom

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- 3. Add \$32K for every photograph

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Property Type	Add	
Villa		\$506K
Unit		\$550K
Townhouse		\$613K
Duplex		\$671K
Semi		\$756K
House		\$813K
Terrace		\$968K

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- 3. Add \$32K for every photograph
- 4. Add the house profile value
- 5. Subtract \$1,500K

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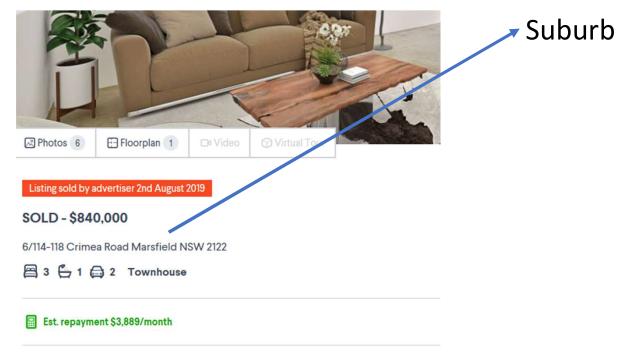
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\$1284



Suburb \$1284

3 * Bedrooms \$120 * 3 \$360

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3 5 1 a 2 Townhouse

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Suburb \$1284

3 * Bedrooms \$120 * 3 \$360

6 * Photos \$32 * 6 \$192

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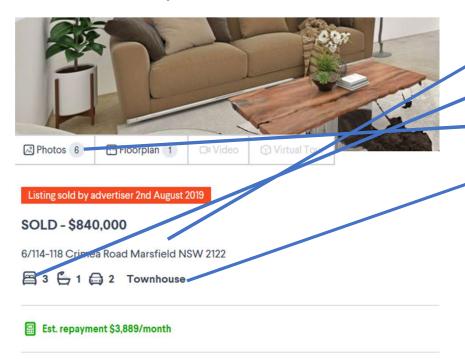
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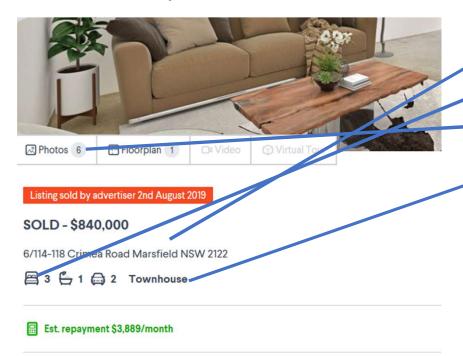
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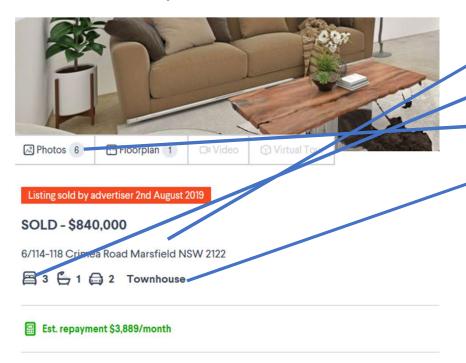
Suburb		\$1284
3 * Bedrooms	\$120 * 3	\$360
→ 6 * Photos	\$32 * 6	\$192
Type of house		\$613



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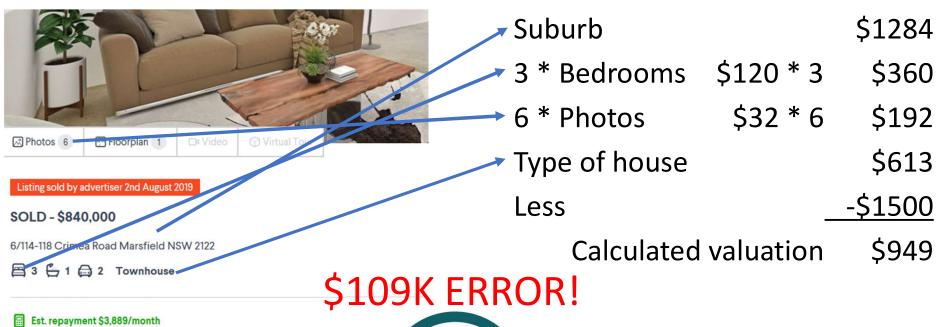
Suburb	\$1284	
→ 3 * Bedrooms	\$120 * 3	\$360
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Type of house		\$613
Less	_	-\$1500



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Type of house		\$613
Less	_	-\$1500
Calculated valuation		\$949



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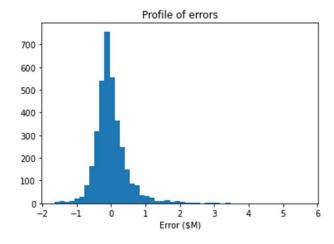
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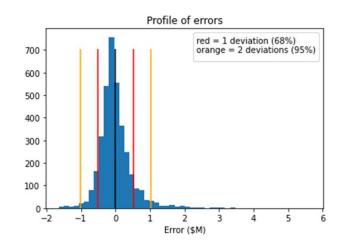
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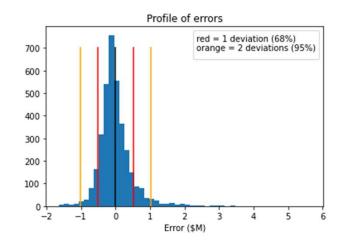


Error profile:

 $$n{=}3594$$ $$\mu{=}66K$$ $$\sigma{=}510K$$ 68% in (-440K to 570K) 95% in (-950K to 1090K) Slight skew in errors

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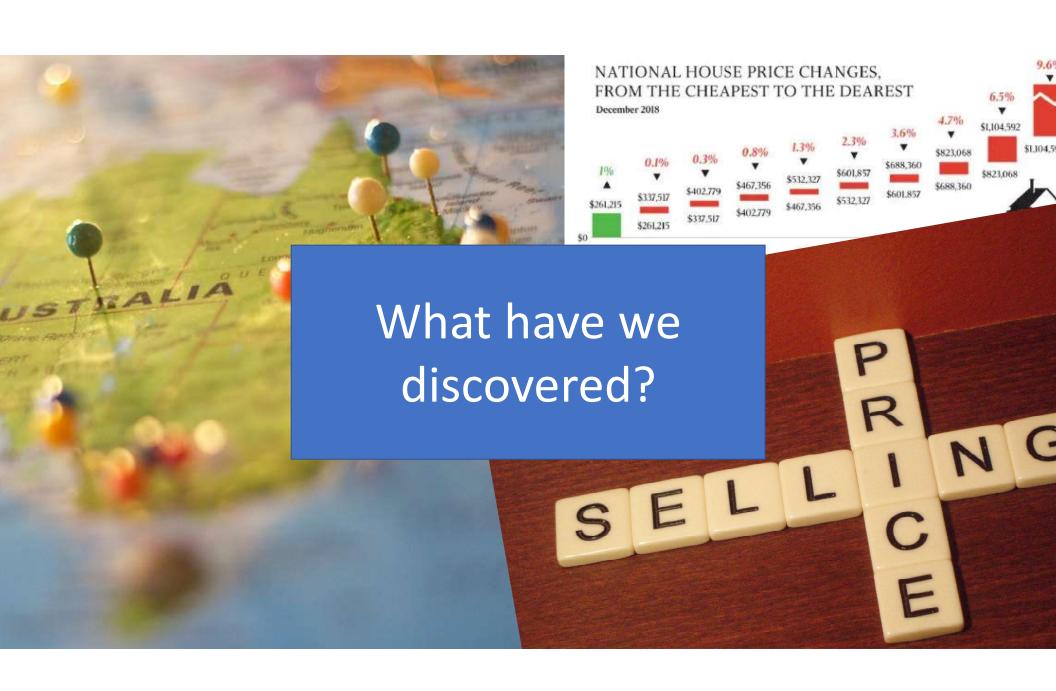


Error profile:

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0.725 sounds high but not really...

...we need > 0.95 for prediction



Sell before auction potential 3% uplift on value

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Add a new bedroom

but only if it costs you less than \$120K

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Use lots of photos

each one is worth \$32K

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Predicting what your property will sell for need more data

What to try it?

Head to:

https://github.com/briandorricott/DataScience-Exchange.git