# **Analytics for House Price Dataset**

Five selected hypotheses:

* Determine if the sale price is associated to overall quality
* Determine if the sale price is associated to lot size
* Determine if the sale price is associated to heating quality
* Determine if the sale price is associated to ground living area
* Determine if the sale price is associated to garage area

1. **Determine if the sale price is associated to overall quality**

A graph with blue lines

Description automatically generated

Observations: The sale price and overall quality show a strong linear relationship. The houses have better quality also tend to have higher price.

1. **Determine if the sale price is associated to lot size.**

A graph showing the relationship between sales and lots of other sales

Description automatically generated

Observations: The sale price has a weak relationship with lot size.

1. **Determine if the sale price is associated with heating quality.**

A graph of a graph showing the difference between heat and condition

Description automatically generated

Observations:

* Houses with better heating quality have higher average prices.
* There are some outliers in the groups of Excellent, Good and Average heating quality

1. **Determine if the sale price is associated with ground living area.**

A graph showing a number of blue dots

Description automatically generated

Observations:

* The sale price has a strong linear relationship with ground living area.
* There are some outliers.

1. **Determine if the sale price is associated to garage area**

A graph showing a blue line

Description automatically generated

Observations:

* The sale price has a medium linear relationship with size of garage area.
* There are some outliers.