You are tasked with creating an algorithm which would give the user a suggested price for a listing that they are creating based on the information they fill in. Assume that we have already built the data set for this as is attached in the csv file. In the dataset, we have

the y\_var, which is the price that the listing sold at with a collection of different predictors, named x1 - x15. The \_cat attached to the name means it was a categorical feature, \_cont means that it is a continuous numerical feature.

There are 2 outputs

we want from this problem statement:

What is your proposed algorithmic solution for this problem

statement? Why is this the best solution?

1. Please attach all your work, either python files, R files,

python notebooks, R markdowns, etc.

* + Please create a Presentation (Powerpoint, Google Slides, Google Docs, or Notebooks preferred) to explain your work and output.

1. Now that you have built the model, we decide to go forward and implement the solution within our systems to support this product feature - When user starts to create a listing with-in our app or our website and enters the information (input variables) required by your model, we show a "recommended price" based on your model. You can assume 5000 listings are being created in our platform every minute through our iphone or android app or website.

For this volume, please

suggest a pipeline/deployment plan to roll this out into production. Please

create a presentation for this as well to explain key building blocks of your approach.

Data set - [link](https://drive.google.com/file/d/1kZiE2a7rKYBaQ-GlvtSoEGhSqCYUugUF/view?usp=sharing)