Predicting House Prices Using Machine Learning.

# Test Heading

## **Test Heading 2**

### Test Heading

This Settings is fixed.

Test Normal

# Heading 1

## Heading 2

### Heading 3

References :

* <https://www.globalpropertyguide.com/Asia/India/Price-History>
* Feature selection: <https://towardsdatascience.com/feature-selection-techniques-in-machine-learning-with-python-f24e7da3f36e>
* Feature importance : <https://www-sciencedirect-com.ezproxy.herts.ac.uk/science/article/pii/S1532046418301400?via%3Dihub>
* Features importance : <https://bmcbioinformatics.biomedcentral.com/articles/10.1186/1471-2105-10-213>
* Feature Importance algorithm: select k best use chiquare selection feature: <https://towardsdatascience.com/chi-square-test-for-feature-selection-in-machine-learning-206b1f0b8223>
* Support Vector Machine: <https://shuzhanfan.github.io/2018/05/understanding-mathematics-behind-support-vector-machines/>
* Support Vector Machine : <https://en.wikipedia.org/wiki/Support-vector_machine>
* Random Forest : <https://en.wikipedia.org/wiki/Random_forest>
* Research : https://www.houselogic.com/sell/how-to-sell-step-by-step/home-market-analysis/
* Research Tool: <https://www.bricknbolt.com/cost-estimator>
* Gradient Boosting Regressor: <https://machinelearningmastery.com/gradient-boosting-machine-ensemble-in-python/>
* Gradient Boosting Regressor: <https://en.wikipedia.org/wiki/Gradient_boosting>

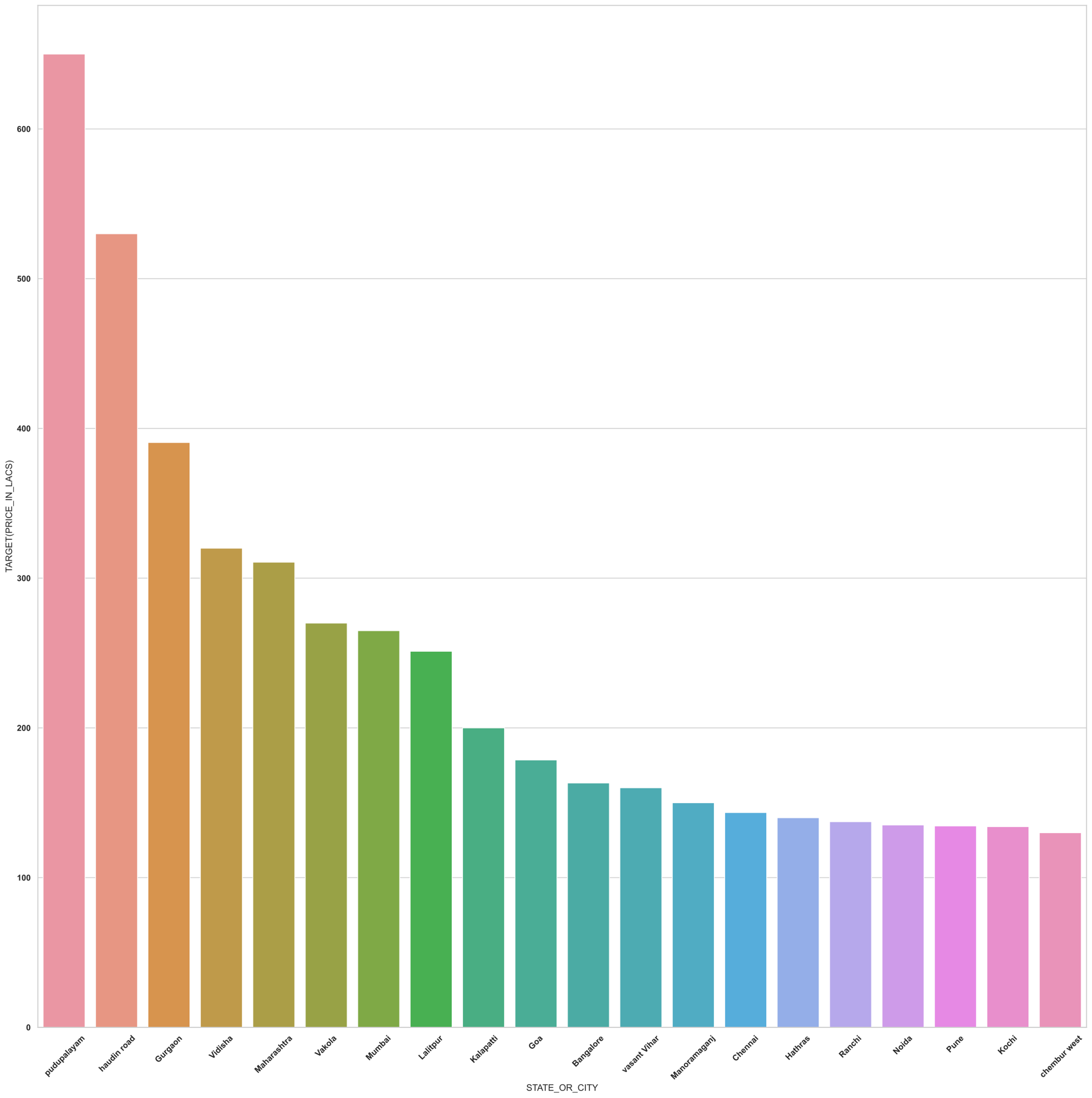
References with citation

* Gnu.org. 2021. *GNU General Public License v2.0 - GNU Project - Free Software Foundation*. [online] Available at: <http://www.gnu.org/licenses/old-licenses/gpl-2.0.en.html> [Accessed 18 August 2021].
* kumar, a., 2020. *House Price Prediction Challenge*. [online] Kaggle.com. Available at: <https://www.kaggle.com/anmolkumar/house-price-prediction-challenge> [Accessed 18 August 2021].
* En.wikipedia.org. 2021. *Real Estate (Regulation and Development) Act, 2016 - Wikipedia*. [online] Available at: <https://en.wikipedia.org/wiki/Real\_Estate\_(Regulation\_and\_Development)\_Act,\_2016> [Accessed 18 August 2021].
* Géron, A., 2019. *HANDS-ON MACHINE LEARNING WITH SCIKIT-LEARN, KERAS, AND TENSORFLOW: CONCEPTS, TOOLS, AND TECHNIQUES*. SEBASTOPOL: O'REILLY MEDIA, pp.186-210.
* Ozdemir, S., 2016. *Principles of data science*. Birmingham, UK: Packt Publishing, pp.98-248.

## Appendices

### Is more populated or less populated areas have more price





The above code explains top spends on the areas. This reveals a critical analysis of house prices. Figure shows clearly unnecessary spikes. As this shows top central cities of India spends less amount than rural areas. As shown, rural areas have more prices than the more populated areas.