House Price Prediction

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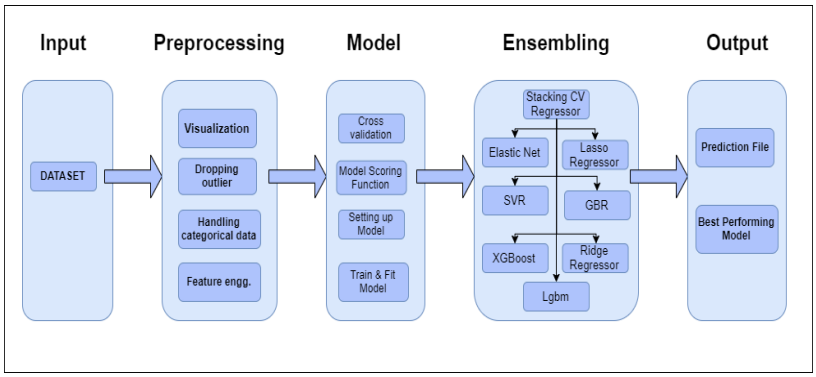
Abstract:

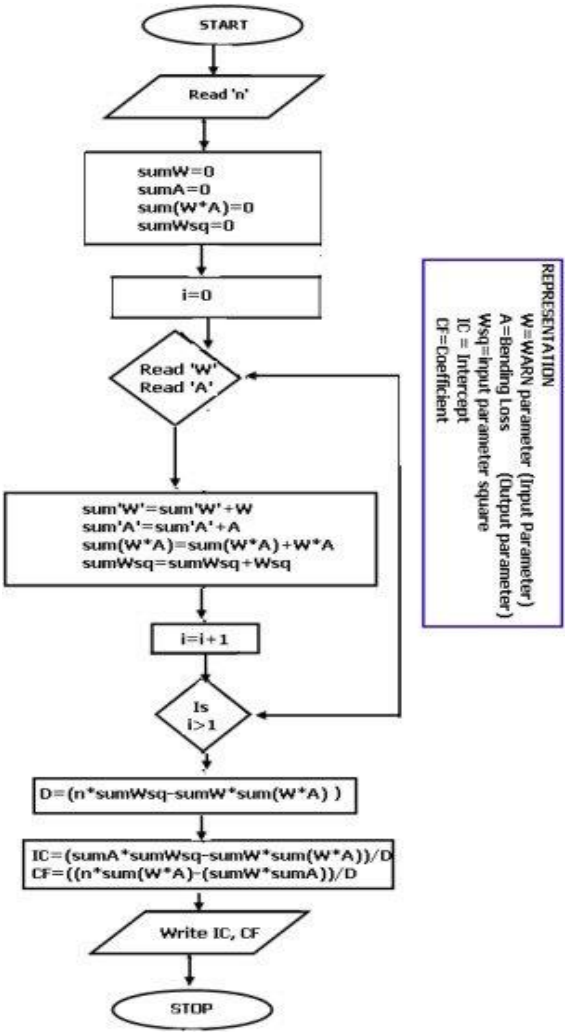
The field of machine learning is introduced at a conceptual level. Ideas such as supervised and unsupervised as well as regression and classification are explained. The tradeoff between bias, variance, and model complexity is discussed as a central guiding idea of learning. Various types of models that machine learning can produce are introduced such as the neural network (feed-forward and recurrent), support vector machine, random forest, self-organizing map, and Bayesian network. Training a model is discussed next with its main ideas of splitting a dataset into training, testing, and validation sets as well as performing cross-validation. Assessing the goodness of the model is treated next alongside the essential role of the domain expert in keeping the project real.

In the following project we have tried implementing various machine learning algorithm in order to predict house prices according to various attributes. The method with the best accuracy is than deployed to predict the price according to the user's need. Various attributes used in this project were location, bathroom, bedroom and square feet of the house

Flow Chart:(House Prediction)



Flow Chart:(Linear Regression)



Link to the Project:
https://github.com/pankhuri2910/House-price-prediction