Chapter 20

Long–Term Effects of Climate Change on Housing Market analytics in Amaravati, Capital of Andhra Pradesh in India, Using Machine Learning

Bhimavarapu Usharani

https://orcid.org/0000-0001-5050-0415

Koneru Lakshmaiah Education Foundation, India

ABSTRACT

Housing markets are known to be affected by adverse environments (i.e., environmental air pollution incidents affect Indian urban residents). Urban atmosphere quality has changed extensively with PM2.5 and O3 becoming the primary atmosphere indicators of concern because of dense cities in recent years. There is a correlation between the air pollution of Amaravati with the housing market model. When estimating the housing market, the chapter makes use of the extended regression model together with several constant results in conformity with higher rule. However, there is an insignificant affinity including the concentration regarding SO2 and the concentration of O3 appears according to positively increase the housing values. This chapter therefore examines the influence of actual real estate investment over atmosphere characteristics through the use of a sample on 26 prefecture-level cities in India from 2010–2019 through countless econometric models.
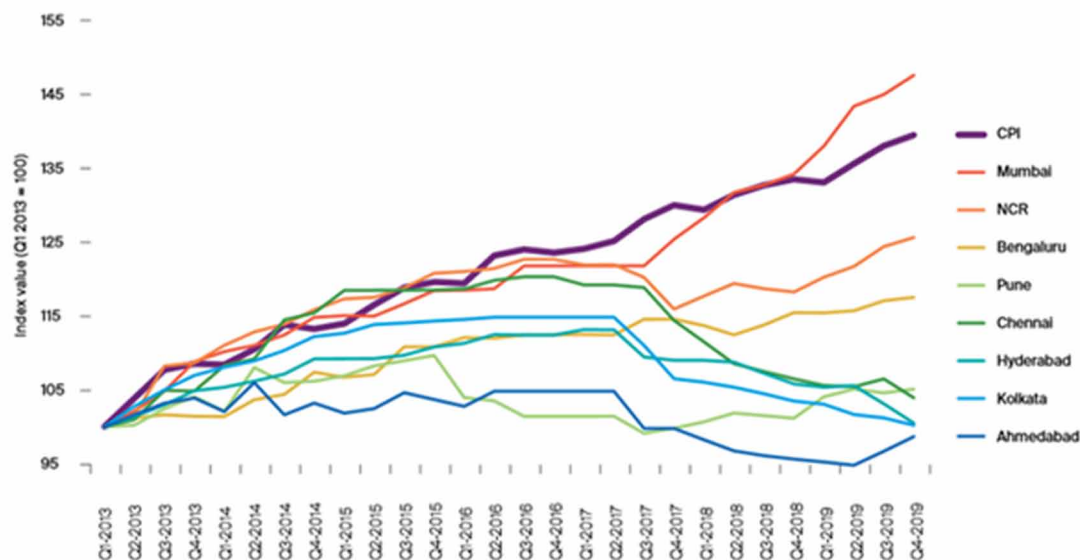
INTRODUCTION

India has experienced speedy urban growth in the twentieth century. The total urban population extended tenfold between 1901 and 2001.The portion on urban population in accordance with the total population increased beyond less than 11 percentage in conformity with above 28 percentage in the same duration. Air pollution has received rising activity into contemporary years, of India, fit after the speedy industrialization so has wrought extreme degrees regarding air pollution.

The manner on estimating the virtue because of real having properties, is fundamental because of each buys and marketers namely the groundwork for negotiation then transaction. Over the ultimate twenty years, even has been an amplify into the wide variety on pilot studies examining reckoning strategies because real zemindary property value. The dodge fee on India has defines ——Real Estate‖, as like land, which includes the air upon about that yet the ground beneath it, then anybody building yet structure on it, any building then shapes about such Mr. Ashish Mittal&Ms. Khusboo Bhargava of 2014 (Mittal & Bhargava, 2014). As through Selim within 2008 (Selim, 2008) explained respecting several elements who pleasure impact about real manor housing prices are kind about house, kind concerning building, variety of rooms available.

Certainly, the aggravation on mania pollution desire similarly enhances its affect concerning the waft concerning social resources. A large extent of writing has analyzed the factors to that amount may also affect housing fees in city India, researchers admit to that amount housing bills remain a characteristic embedded inner-city attributes yet nearby masses amenities, as include mania quality. Quarter wise variations in housing prices in metropolitan cities in India from 2013 to 2019 are depicted in **Figure 1**.

Figure 1. House index value quarter wise from 2013 to 2019

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