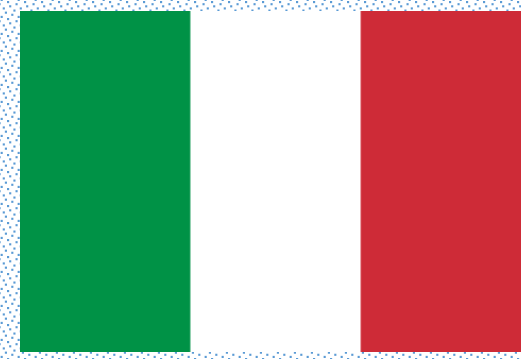# GDP Per Capita with Population of Countries

Selected Countries
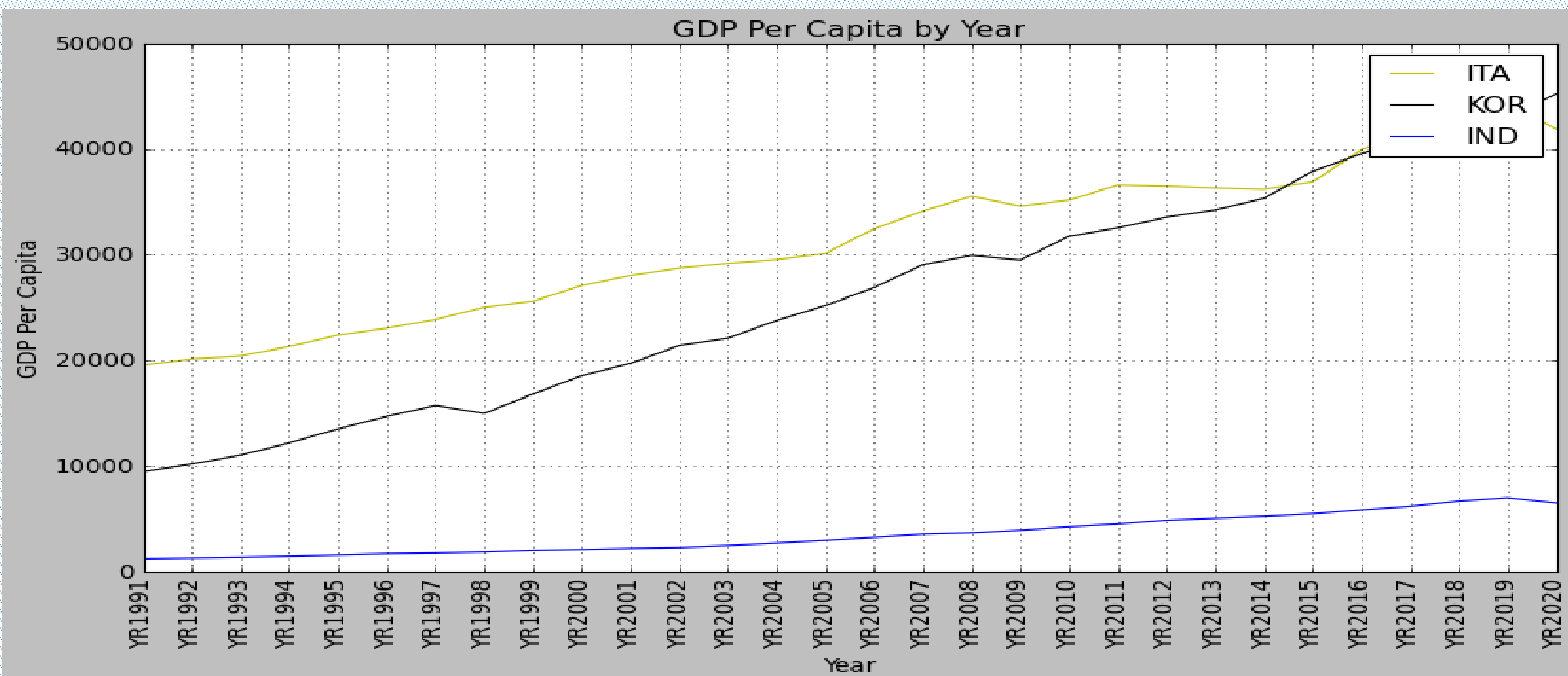
Italy   Korea   India
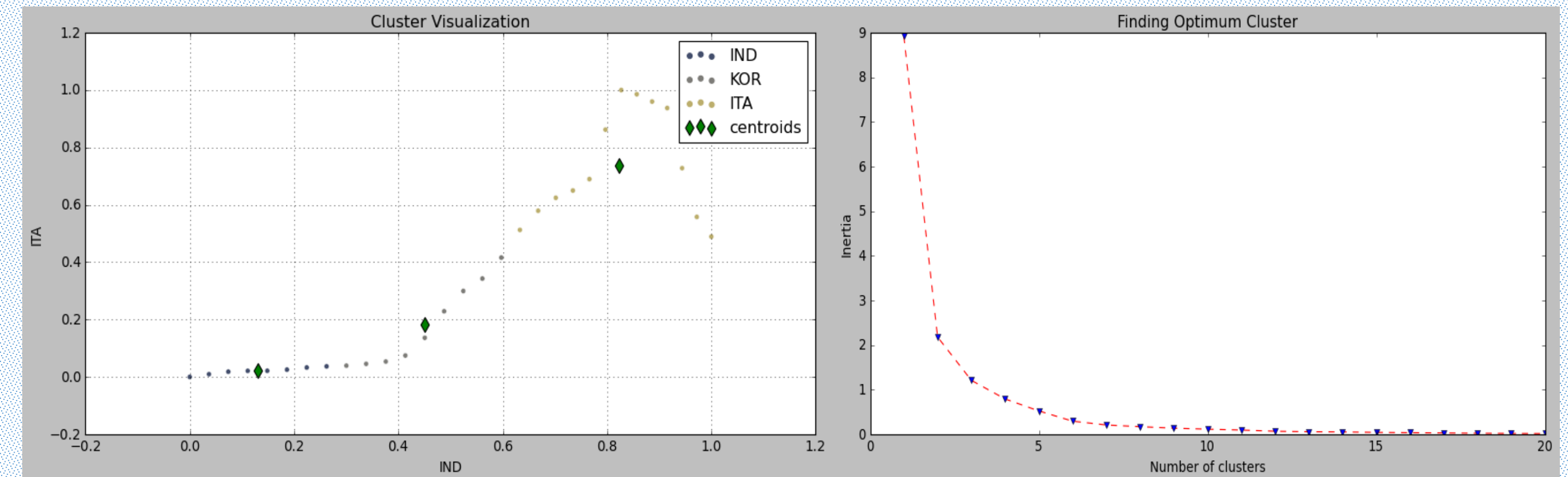
Background and Motivation

Gross domestic product (GDP) is the standard measure of the value added created through the production of goods and services in a country during a certain period. As such, it also measures the income earned from that production, or the total amount spent on final goods and services. It is the total monetary or market value of all the finished goods and services produced within a country's borders in a specific time period. As a broad measure of overall domestic production, it functions as a comprehensive scorecard of a given country's economic health. So, it can be connected with the population growth as it has the direct impact on GDP. So, the analyses have been conducted in this connection and the relevant outcomes have been presented for the selected countries such has Italy, Korea and India.
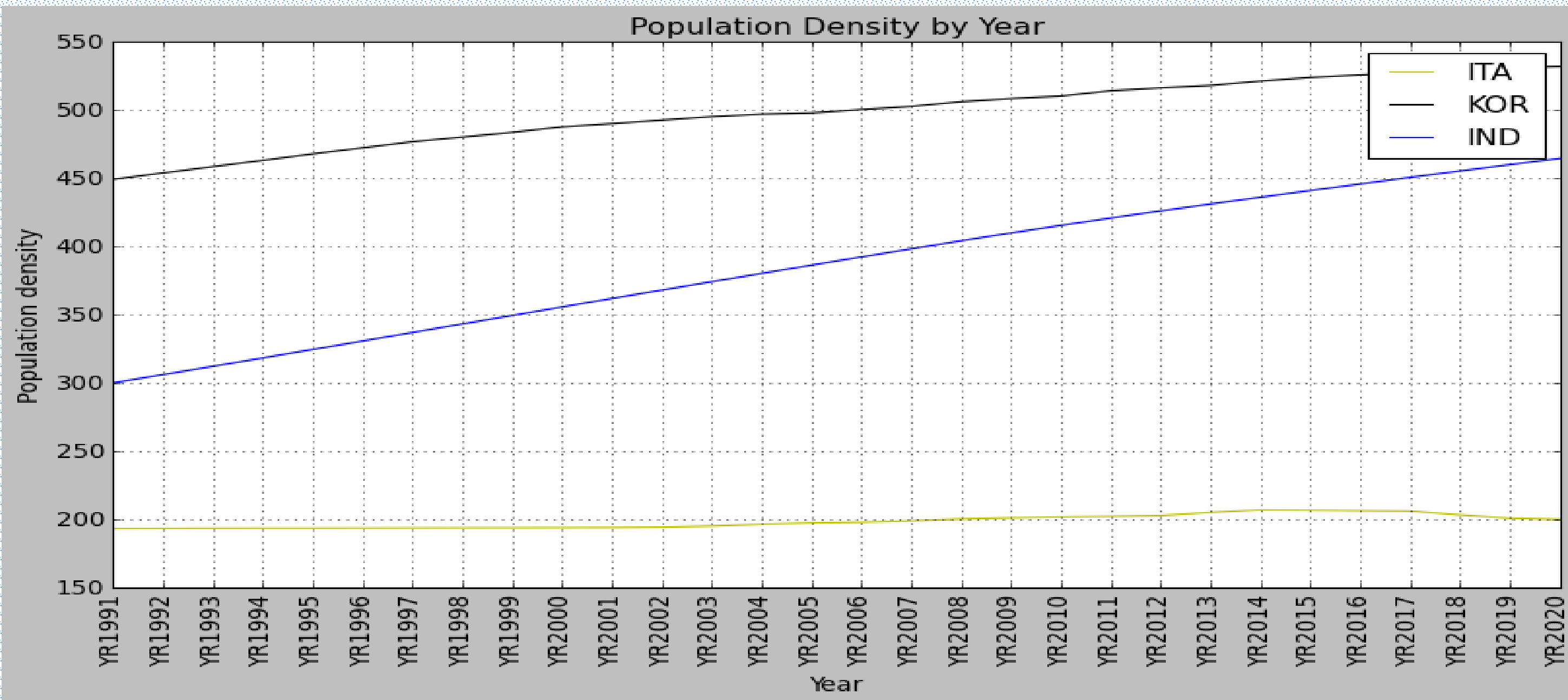

The analysis of the population growth is showing that it is higher in Korea compared to India as observed from 1991 to 2020 according to the World Bank data.

The clustering result is showing that the growth of population is higher for Italy followed by Korea. India has got the thirst place compared to the three selected countries.

The above analysis is showing the fact that the GDP per capita value has been increased for all three countries. However, the higher change and increase has been observed for Korea as the growth of Italy has been interrupted on 2019.
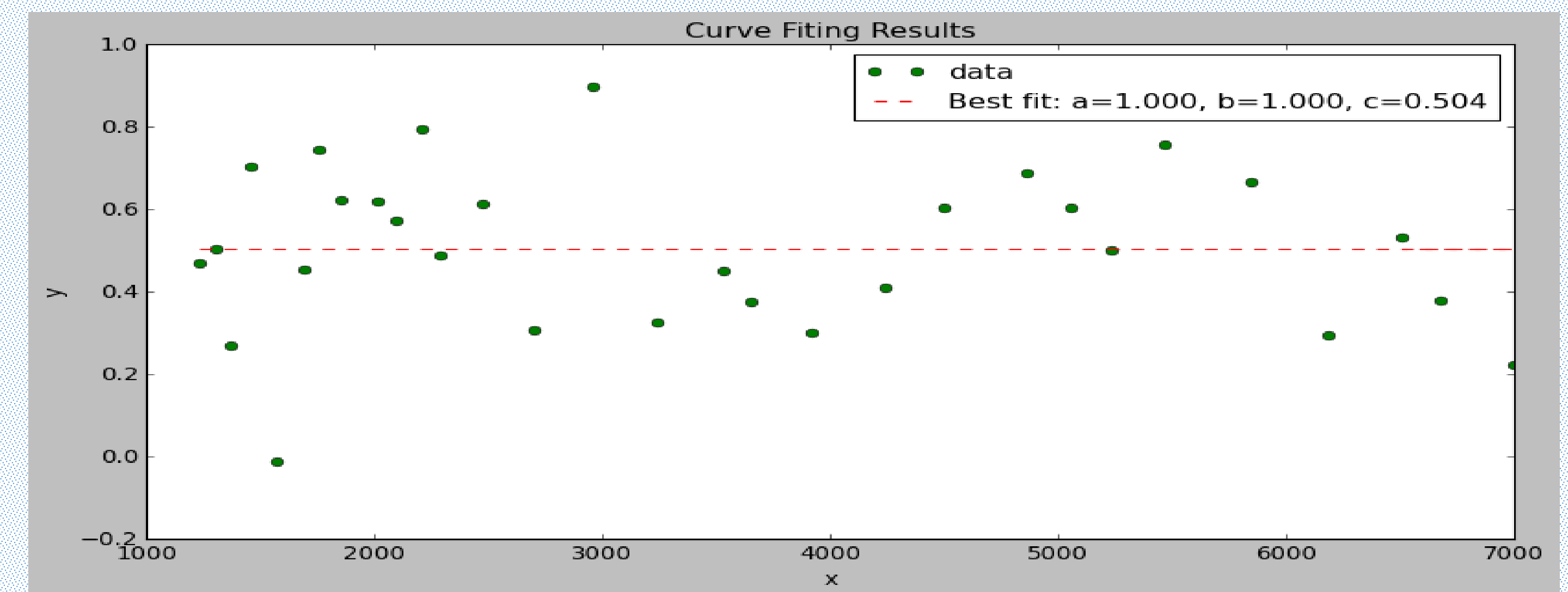
The prediction of the GDP per capita has been done using curve fitting with the exponential method. It has been seen that the data has been properly fitted which is good for prediction.

https://data.worldbank.org/topic/climate-change