Response

CO2 emission per capita

### CO2 emissions (kt) / Population, total

All other indexes are Predictors

Indexes used

['EN.ATM.CO2E.KT', ‘NY.GDP.MKTP.PP.KD’, 'SP.POP.TOTL',

'EG.FEC.RNEW.ZS', 'SP.URB.TOTL.IN.ZS', 'NV.MNF.TECH.ZS.UN', 'NE.TRD.GNFS.ZS']

indexes = ['EN.ATM.CO2E.KT',

[CO2 emissions (kt)](https://data.worldbank.org/indicator/EN.ATM.CO2E.KT)

‘NY.GDP.MKTP.PP.KD’

**[GDP per capita, PPP (constant 2017 international $)](https://data.worldbank.org/indicator/NY.GDP.PCAP.PP.KD)**

'SP.POP.TOTL',

**[Population, total](https://data.worldbank.org/indicator/SP.POP.TOTL)**

'EG.FEC.RNEW.ZS',

**[Renewable energy consumption (% of total final energy](https://data.worldbank.org/indicator/EG.FEC.RNEW.ZS)**

'SP.URB.TOTL.IN.ZS',

**[Urban population (% of total population)](https://data.worldbank.org/indicator/SP.URB.TOTL.IN.ZS)**

'NV.MNF.TECH.ZS.UN',

[Medium and high-tech manufacturing value added (% manufacturing value added)](https://data.worldbank.org/indicator/NV.MNF.TECH.ZS.UN)

'NE.TRD.GNFS.ZS']

[Trade (% of GDP)](https://data.worldbank.org/indicator/NE.TRD.GNFS.ZS)

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1. Stationarity
2. Correlation
3. Missing data imputation (cannot impute median and mean)
4. Predict entire function
5. CO2 response and GDP as covariate (usually it is quadratic) by taking all countries together