회귀분석1 자료분석 과제 보고서

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# Introduction

(분석을 하게 된 동기나 배경)

분석 데이터는 Gapminder 재단의 자료를 활용했다. 이번 분석에서 활용할 변수들은 아래와 같다.

## Dependent variable

* CO2 emissions (tonnes per person)
* CO2 emissions (1000 tonnes)

## Independent variable

* Population
  + Population
  + Population growth (annual %)
  + New births (total number, estimated)
  + Life expectancy (years)
* Environment
  + Agricultural land (% of land area)
  + Forest area (sq. km)
  + forest coverage (%)
  + forest land, total area (ha)
  + wood removal (cubic meter)
  + material footprint per capital (tonnes)
  + plastic percent of waste composition
* Energy
  + Coal consumption, per person
  + Coal consumption, total
  + Electricity generation, per person
  + Electricity generation, total
  + Electricity use, per person
  + Residential electricity use, total
  + Residential electricity use, per person
  + Hydro electricity production, per person
  + Hydro electricity production, total
  + Natural gas production, total
  + Natural gas production, per person
  + Nuclear electricity production, per person
  + Nuclear electricity production, total
  + Oil consumption, total
  + Oil consumption, per person
  + Oil production, total
  + Oil production, per person
  + Energy production, per person
  + Energy production, total
  + Energy use, per person
* Economy
  + Investment (% GDP)
  + Working hours per week
  + GDP/capita, (US$, inflation-adjusted)
  + GDP/capita, yearly growth
  + GDP/employee (US$, inflation-adjusted)
  + GDP/working hour (US$, inflation-adjusted)
  + Income per person (GDP / capita, PPP$ inflation-adjusted)
  + Total GDP (US$, inflation-adjusted)
  + Agriculture (% of GDP)
  + Industry (% of GDP)
  + Services (% of GDP)
* Work
  + Agricultural workers (% of employment)
  + Industry workers (% of employment)
* Society
  + Democracy score (use as color, -10 ~ 10)
  + Human Development Index (HDI)
  + Military expenditure (% of GDP)

# Analysis

# Conclusion

(분석과정에서 느낀 점)

# Appendix

## Data list (data.zip)

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* CO2 emissions (1000 tonnes)
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  + Military expenditure (% of GDP)

## References

Gapminder Foundation - <https://www.gapminder.org/data/>

<R을 활용한 선형회귀분석> - 강근석

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