

FEM2063 DATA ANALYTICS - MAY 2020

LAB PRACTICE 6 (WEEK 7)

Learning Outcomes

The goal of this lab session is to revise all the previously learned techniques:

- 1. Simple Linear Regression
- 2. Multiple Linear Regression
- 3. Logistic Regression
- 4. Naïve Bayes
- 5. Linear Discriminant Analysis
- 6. Quadratic Discriminant Analysis
- 7. Singular value decomposition (SVD)
- 8. Principle component analysis (PCA)

The country-data (in Ulearn) is downloaded from Kaggle (https://www.kaggle.com/rohan0301/unsupervised-learning-on-country-data). It contains the variables described in the table below

country	Name of the country
child_mort	Death of children under 5 years of age per 1000 live births
exports	Exports of goods and services per capita. Given as %age of the GDP per capita
health	Total health spending per capita. Given as %age of GDP per capita
imports	Imports of goods and services per capita. Given as %age of the GDP per capita
income	Net income per person
inflation	The measurement of the annual growth rate of the Total GDP
life_expec	The average number of years a newborn child would live if the current mortality patterns are to remain the same
total_fer	The number of children that would be born to each woman if the current age- fertility rates remain the same.
gdpp	The GDP per capita. Calculated as the Total GDP divided by the total population.



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Using the country-data,

- implement all the above-mentioned techniques (decide on the variables to be used)
- explain your choices of the used variables
- Interpret all the results

************The End**********