Anfertigen eines CAT bzw. PIKE

Kann … // Algorithmus x // exact … // (Kunden)-Problem … berechnen / lösen?

Yes

Big Data / Data Mining / Data Science Kernaussage:
(P) roblem):
[Welcher Frage hat für die Lösung des Kunden / Auftraggeber die größte Bedeutung?]:

To determine impact of COVID-19 on education globally.
Which countries/regions are much affected due to pandemic.

(I) ntervention:
(Bibliotheken- und Algorithmen-Auswahl, … z.B. pandas für Finanzdaten …)
[Welche Berechnung erwäge ich vornehmlich?]:

Reading, cleaning and grouping data using pandas, seaborn and matplotlib to create plots.

(K) ontrollintervention
(falls erforderlich: Bliotheken- und Algorithmen-Auswahl … z.B. scikit-learn für Finanzdaten …)
[Was ist die andere Möglichkeit?]:

The single and stacked plot could be created only using matplotlib.
Matplotlib is well connected with NumPy whereas Seaborn is more comfortable in handling Pandas data frames and built-in features
create better visualization format .

(E) rgebnismaß (Zielgröße(n)) – Die Evidence
[Was möchte ich / der Kunde erreichen? Z.B. Prädiktor oder Klassifikator erstellen …]:

Analysis and visualization of number of enrollments in schools in different parts of the world during COVID-19 pandemic. Does the effect related to economic status of different countries.

Anmerkungen:

Literaturhinweise:
Impact of COVID-19 on Education:https://en.wikipedia.org/wiki/Impact_of_the_COVID-19_pandemic_on_education

Die Suche nach der besten Evidenz

1.   Problem

Many sections of the dataset was missing. Many aspects of pandemic impact were not surveyed.

2.   Definition einer wichtigen suchbaren Frage

Is pandemic impacts is same in developed and developing world?
Has the pandemic created any learning losses throughout the World?

3.   Auswahl der wahrscheinlichsten Quelle für diese Evidenz
Create and examine graphical representations.
Create a list of high correlated columns and plotting graphs to examine the relation between them-

4.   **Erstellung einer Suchstrategie**

Doing EDA (exploratory data analysis: loading the dataset into a data frame using Pandas
Explore the number of rows & columns, ranges of values etc. handling the missing, incorrect and invalid
data .Read and visualize the data with different types of plot

5.0   Zusammenstellung der Evidenzausbeute

The graphical representation gives an overview of the impact of pandemic.
More strategical plan required to analyze the impact of COVID-19 on education.

6.   Anwendung der Evidenz

I have built a model that analyses and visualizes the impact of COVID-19 on school enrollments in different
parts of the world also and visualization of enrollments in accordance with economic status of different
regions .