GG3209 Independent Research Project

**Pre-approval form for topic and data**

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| **Topic title** | The effect of the COVID-19 pandemic on income inequality within the EU. |
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| **A short description of topic (1 paragraph)** | This project explores income inequality within the EU before and after the COVID pandemic. There is a growing body of literature investigating the effect of the COVID-19 on inequalities with a common belief that inequality has risen during the pandemic. We explore whether this is indeed the case in the case of the EU. |
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| **Proposed data (also, name your source for each data set)** | To explore the effect of the COVID pandemic on inequality within the EU, we use data on GDP per capita (PPS) on the regional level (NUTS 2) obtained from the Eurostat database. Since this is not a geospatial dataset, first, we must merge it with a shapefile which contains geometries of the EU based on NUTS classification. We obtain this shapefile from the Geographic Information System of the Commission (GISCO) database.  We analyse this data and create visualizations, we use Python libraries including Pandas, GeoPandas, Seaborn, Matplotlib, and PySAL.  Sample vizualizations: Fig 1, Fig 2 |

Obrázok, na ktorom je tabuľka

Automaticky generovaný popis

Fig 1: Evolution of the 20:20 ratio of income distribution of the EU regions

Obrázok, na ktorom je mapa

Automaticky generovaný popis

Fig. 2: GDP per capita in the NUTS2 regions of the EU in 2019