Crimes Dummy Project

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Main

dummy_project_main.**main**( )

Main program of Crime Data Analysis

This function execute a descriptive analysis of the crimes data set and provides insight about and it can support de decision process related to surveillance schedule

Auxiliar Functions

dummy_project_utils.**check_nan** (*dataframe*, *logger*)

Check NaNs

Check if the input dataframe contains NaN values and fill with 0

Parameters
- **dataframe** – Data Frame if input data
- **logger** – logger to record exception

Returns output dataframe with 0 values in NaN values

dummy_project_utils.**get_frequencies** (*df*, *column*, *logger*)

Get frequencies

Obtain some distribution of frequency to known how is distributed the incidences

Parameters
- **df** – Data frame
- **column** – Column to obtain the distribution of frequency of occurrence
- **logger** – logger to record exception

Returns dataframe with the crimes frequencies

dummy_project_utils.**load_data** (*path*, *logger*)

Load input data

Load the crimes input data

Parameters
- **path** (*str*) – path of the csv file to upload
- **logger** – logger to record exception

Returns dataframe with the data

dummy_project_utils.**plot_barplot** (*df*, *var_x*, *var_y*, *path*, *logger*)

Plot Barplot

Plot a barplot to compare the incidence of crimes according to characteristics

Parameters
- **df** – Dataframe to plot
- **var_x** – x-axis variable
- **var_y** – y-axis variable
- **path** – path where it is saved plot in png format
- **logger** – logger to record exception

dummy_project_utils.**plot_scatterplot** (*df*, *var_x*, *var_y*, *scale*, *path*, *logger*)

Plot scatter

plot with the coordinates of the crimes

Parameters
- **df** – Dataframe to plot
- **var_x** – x-axis variable
- **var_y** – y-axis variable
- **scale** – scale of the point
- **path** – path where it is saved plot in png format

dummy_project_utils.**set_up_logger**(*path*)

Set up logger

Configure the logger to record all the envents in the execution of the code

Parameters
- **path** (*str*) – path where to store logs example: 'logslog_file_name'
- **logger** – logger to record exception

Returns logger logger

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