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https://openweathermap.org/history-bulk"
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engine='python', header=0)\n",
    "len(weather)"
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only null data. In addition, there are some columns that do not have nay
contribution to the prediction such as weather_description, weather_main,
icon, etc. Therefore, the first step is to remove all useless, redundant
columns from the data frame."
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l','rain_1h','rain_3h','snow_1h','snow_3h','weather_main','weather_descrip
tion','weather_icon', 'temp_min', 'temp_max']\n",
      "weather.drop(to_remove, axis=1, inplace=True)"
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energy generated at night. Futhermore, having them in the training dataset
can significantly reduce the quality of the model. Assuming that there is
completely no sun between 22:00 and 04:00 of the next day, rows whose
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```

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1.00   \n",
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   "The solar energy production data published by Frank
(https://www.kaggle.com/fvcoppen/solarpanelspower) contains only daily
data. Therefore data in the dataframe above which were collected in the
same day need to be gather together into a single rows. There are two
options to do this: 1) Make columns of every hour in a day and 2)
Calculate the value for morning, noon and afternoon.\n",
   "\n",
   "The choice should be made based on the weather forecast given by
OpenWeather. There are two types of data: 1) One Call API that gives
hourly forecast for 48 hours and 2) 5 Day / 3 Hour forecast, where The API
response is the forecast of 3 hours for the next 5 days.\n",
   "\n",
   "For now, the second option is used to predict the solar energy 5 day
ahead. The data will be averaged out whithin 3 time frames: 04:00 to
11:00, 11:00 to 16:00, and 16:00 to 22:00. Note that weather_id is
categorical data, it will not be averaged but the most popular data will
be taken instead."
  ]
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      "#To find the value with the most apperance\n",
      "from collections import Counter\n",
      "\n",
      "def most_frequent(lst):\n",
      "    data = Counter(lst)\n",
      "    return data.most_common(1)[0][0]"
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    "def simplify_data(weather):\n",
    "    new_data = pd.DataFrame(columns = ['date',\n",
    "
'mor_temp','mor_humid','mor_wspd','mor_wdeg','mor_cloud','mor_weather_id',
\n",
    "
'noo_temp','noo_humid','noo_wspd','noo_wdeg','noo_cloud','noo_weather_id',
\n",
    "
'aft_temp','aft_humid','aft_wspd','aft_wdeg','aft_cloud','aft_weather_id',
])\n",
    "    \n",
    "    mor_count, mor_temp, mor_humid, mor_wspd, mor_wdeg, mor_cloud =
[0]*6\n",
    "    noo_count, noo_temp, noo_humid, noo_wspd, noo_wdeg, noo_cloud =
[0]*6\n",
    "    aft_count, aft_temp, aft_humid, aft_wspd, aft_wdeg, aft_cloud =
[0]*6\n",
    "    \n",
    "    mor_weather_id=[]\n",
    "    noo_weather_id=[]\n",
    "    aft_weather_id=[]\n",
    "    \n",
    "    current_date = weather.loc[0, 'dt_iso'][0:10]\n",
    "    \n",
    "    for i in range(len(weather)):\n",
    "        if weather.loc[i, 'dt_iso'][0:10] != current_date:\n",
    "            new_data = new_data.append({\n",
    "                'date':current_date,\n",
    "                'mor_temp':mor_temp/mor_count,\n",
    "                'mor_humid':mor_humid/mor_count,\n",
    "                'mor_wspd':mor_wspd/mor_count,\n",
    "                'mor_wdeg':mor_wdeg/mor_count,\n",
    "                'mor_cloud':mor_cloud/mor_count,\n",
    "                'mor_weather_id':most_frequent(mor_weather_id),\n",
    "                'noo_temp':noo_temp/noo_count,\n",
    "                'noo_humid':noo_humid/noo_count,\n",
    "                'noo_wspd':noo_wspd/noo_count,\n",
    "                'noo_wdeg':noo_wdeg/noo_count,\n",
```

```
    "                          'noo_cloud':noo_cloud/noo_count,\n",
    "                          'noo_weather_id':most_frequent(noo_weather_id),\n",
    "                          'aft_temp':aft_temp/aft_count,\n",
    "                          'aft_humid':aft_humid/aft_count,\n",
    "                          'aft_wspd':aft_wspd/aft_count,\n",
    "                          'aft_wdeg':aft_wdeg/aft_count,\n",
    "                          'aft_cloud':aft_cloud/aft_count,\n",
    "                          'aft_weather_id':most_frequent(aft_weather_id)\n",
    "                    }, ignore_index=True)\n",
    "                    \n",
    "                    mor_count, mor_temp, mor_humid, mor_wspd, mor_wdeg, mor_cloud = [0]*6\n",
    "                    noo_count, noo_temp, noo_humid, noo_wspd, noo_wdeg, noo_cloud = [0]*6\n",
    "                    aft_count, aft_temp, aft_humid, aft_wspd, aft_wdeg, aft_cloud = [0]*6\n",
    "                    \n",
    "                    mor_weather_id=[]\n",
    "                    noo_weather_id=[]\n",
    "                    aft_weather_id=[]\n",
    "        \n",
    "                    current_date = weather.loc[i, 'dt_iso'][0:10]\n",
    "            \n",
    "            if int(weather.loc[i, 'dt_iso'][11:13]) < 11:\n",
    "                mor_count += 1\n",
    "                mor_temp += weather.loc[i, 'temp']\n",
    "                mor_humid += weather.loc[i, 'humidity']\n",
    "                mor_wspd += weather.loc[i, 'wind_speed']\n",
    "                mor_wdeg += weather.loc[i, 'wind_deg']\n",
    "                mor_cloud += weather.loc[i, 'clouds_all']\n",
    "                mor_weather_id.append(weather['weather_id'][i])\n",
    "                \n",
    "            elif int(weather.loc[i, 'dt_iso'][11:13]) < 16:\n",
    "                noo_count += 1\n",
    "                noo_temp += weather.loc[i, 'temp']\n",
    "                noo_humid += weather.loc[i, 'humidity']\n",
    "                noo_wspd += weather.loc[i, 'wind_speed']\n",
    "                noo_wdeg += weather.loc[i, 'wind_deg']\n",
    "                noo_cloud += weather.loc[i, 'clouds_all']\n",
    "                noo_weather_id.append(weather['weather_id'][i])\n",
    "                \n",
    "            else:\n",
    "                aft_count += 1\n",
    "                aft_temp += weather.loc[i, 'temp']\n",
    "                aft_humid += weather.loc[i, 'humidity']\n",
    "                aft_wspd += weather.loc[i, 'wind_speed']\n",
    "                aft_wdeg += weather.loc[i, 'wind_deg']\n",
    "                aft_cloud += weather.loc[i, 'clouds_all']\n",
    "                aft_weather_id.append(weather['weather_id'][i])\n",
    "        \n",
    "    return new_data"
   ]
  },
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      " 5   mor_cloud   3380 non-null   float64\n",
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3.714286 \n",
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53.0 \n",
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40.0 \n",
          "\n",
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aft_cloud \\\n",
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```
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packages/seaborn/_decorators.py:36: FutureWarning: Pass the following
variables as keyword args: x, y. From version 0.12, the only valid
positional argument will be `data`, and passing other arguments without an
explicit keyword will result in an error or misinterpretation.\n",
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    "for i in range(len(energy)-1):\n",
    "    power_list[i+1] = energy['cum_power'][i+1] -
energy['cum_power'][i]\n",
    "\n",
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