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import pandas as pd

import numpy as np

df=pd.read_excel('fuel_emmision.xls')

df=df[['country','year','co2','methane','nitrous_oxide','population','gdp']]

df=df[df['country']=='India']

df=df.loc[df['year']>=2000]

df=df.loc[df['year']<2018]

df.set_index('country')

df1=pd.read_csv('pollution_deaths.csv')

df1=df1[df1['Entity']=='India']

df1=df1.loc[df1['Year']>=2000]

df1.columns=['country','Code','year','Number of deaths in 1990','Number of deaths']

df1=df1[['year','Number of deaths']]

df1

df2=pd.merge(df,df1,on='year')

df2.groupby('year')

df2['%death']=(df2['Number of deaths']/df2['population'])*100

df2

import matplotlib.pyplot as plt

import seaborn as sns

x=np.arange(2000,2018,1)

plt.figure(figsize=(10,10))

ax1=plt.subplot(3,1,1)

ax1.set_title('Green house gases emmision')

plt.plot(x,df2['methane'],lw=0.5,linestyle='dashed',color='violet',marker='h',markerfacecolor='blue',label
='methane emmision')
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plt.plot(x,df2['nitrous_oxide'],lw=0.5,color='green',linestyle=':',marker='p',label='nitrous oxide emmision')

plt.plot(x,df2['co2'],lw=0.5,color='red',linestyle='solid',marker='v',label='Emmision of Co2 from vehicles and fossil fuels')

plt.xticks(np.arange(2000,2018,1))

ax1.legend()

ax2=plt.subplot(3,1,2)

ax2.set_title('Population of India from 2000-2017')

plt.bar(x,df2['population'],width=0.25,color='teal',label='Population(2000-2017)')

plt.xticks(np.arange(2000,2018,1))

ax2.legend()

plt.show()

ax3=plt.subplot(313)

y1=df2['%death']

plt.plot(x,y1,lw=0.5,color='blue',marker='o',linestyle='dashed',label='death % ')

ax3.set_title('deaths caused due to outdoor pollution')

ax3.legend(frameon=False)

plt.ylim(0.04,0.06)

plt.xticks(np.arange(2000,2018,1))

plt.show()
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