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	<pre>1 01-10-1996 01:00:00 2 01-10-1996 02:00:00 3 01-10-1996 03:00:00 4 01-10-1996 04:00:00 dataframe_raw.describe</pre>	11.9 995.8 13.0 995.5	81.0 3 75.0			
	count 206179.000000 206179 mean 7.776598 103 std 8.406977 1 min -24.700000 95 25% 1.400000 100 50% 7.400000 103 75% 14.400000 103	.79.000000 206179.0000 .12.189222 76.6051 .11.370530 17.8458 .54.900000 12.0000 .05.200000 65.0000 .12.600000 81.0000 .19.700000 91.0000	000 193 348 000 000 000			
	Time objec Temperature float6 Air Pressure float6	ct 64 64				
	dataframe = dataframe_ #Combining the 'Date'	_raw.copy() and 'Time' column	os into a column called 'L	Patetime' and converting it	: into a datetime datatype.	
Control of the Contro	0 01-10-1996 00:00:00 1 01-10-1996 01:00:00 2 01-10-1996 02:00:00 3 01-10-1996 03:00:00	10.5 996.2 10.1 995.9 10.2 995.3 11.9 995.8	80.0 01-10-1996 00:00:00 82.0 01-10-1996 01:00:00 81.0 01-10-1996 02:00:00 75.0 01-10-1996 03:00:00			
	<pre># formatting the 'Date dataframe['Datetime'] # using the pd.to_nume</pre>	etime' column = pd.to_datetime(eric function to c	dataframe['Datetime'], for	lumns		
The content of the	<pre># using the Datetime c dataframe['Date'] = da</pre>	column to turn the ataframe['Datetime	P Date and Time columns in		ic, errors ='coerce')	
AND THE CONTROL OF TH	dtype: object	object float64 float64 float64 ime64[ns]	pe "object"			
The control of the co	dataframe.Date[0] latetime.date(1996, 10 dataframe.Time[0] latetime.time(0, 0)), 1)				
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The property of the property o	20 -		Air Pressu			
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Assalating the data The control of	0-		2012 2016 2020	_		
Security Continue	dataframe = dataframe. #using datetime_is_nu desc = dataframe.descr	.dropna() umeric = True to generate ribe(datetime_is_n	numeric = True)	time column		
March Marc	desc[desc.columns[:-1] desc Temperature Air Pres]] = desc[desc.col	.umns[:-1]].apply(lambda >	: x.apply("{0:.4f}".format	:))	
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comparing year against junctage here htterrare ["temperature_morthly", "lair_pressure_morthly", "lamidity_morthly"] = datafrene["temperature", "Air Pressure", "lamidity_morthly", "humdity_morthly"], anaplots = True, figure = (25,6)) respectively. Accordance and Correlation Concessarion Raters for one of these parameters. "Temperature", "Air Pressure", "mandity" Described to the parameters for the parameters. "Temperature", "Air Pressure", "mandity"], alphano.5, "tigstree[10, 10]) parameters against the parameters. "Air Pressure", "Mandity"], alphano.5, "tigstree[10, 10]) parameters against the parameters. "Air Pressure", "Mandity"], alphano.5, "tigstree[10, 10]) parameters against the parameters. "Air Pressure", "Mandity"], alphano.5, "tigstree[10, 10]) parameters against the parameters. "Air Pressure", "Mandity"], alphano.5, "tigstree[10, 10]) parameters against the parameters. "Air Pressure", "Mandity"], alphano.5, "tigstree[10, 10]) parameters against the parameters. "Air Pressure", "Mandity"], alphano.5, "tigstree[10, 10]) parameters against the parameters. "Air Pressure", "Mandity"], alphano.5, "tigstree[10, 10]) parameters against the parameters. "Air Pressure", "Mandity"], alphano.5, "tigstree[10, 10]) parameters against the parameters against the parameters against the parameters against the parameters. "Mandity"], alphano.5, "tigstree[10, 10]) parameters against the parameters a		V. M	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Air Pressure	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
htteframe[['temporature monthly', 'air pressure monthly', 'humudity monthly']] = dataframe[['Temporature', 'Air Pressure', 'Humudity monthly'], subplots = True, figsize = (20.5)) resynthese plot('Datetian', ['Temporature', ownshipplotexiabel-'Datetine'), sexessiable::slabel='Datetine's_, developments, developments, sexessiable::slabel='Datetine's_, developments, d	1020 -	$\sqrt{}$	2004	2009	2014	2019
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Data Covariance and Correlation **Correlation Natrix for the three parameters 'Temperature', 'Air Pressure', 'Humidity' **was = pd.plotting.scatter_matrix(dataframe(['Temperature', 'Air Pressure', 'Humidity']], alpha=0.5, figsize=[10, 10]) **orr = dataframe(["Temperature', 'Air Pressure', 'Humidity']], corr(method='spearman').to_numpy() **orr i, j in zipi'pli.np.triu.indices_from(axes, k=3)); **axes[i, j]:amnotate("%.3f" % corr[i, j], (0.8, 0.8), xycoords='axes fraction', has'center', vas'center') **Ill.show() **application** **applicat	#computing your moving dataframe[['temperature the chain dataframe.plot('Dateti	re_monthly', 'air_ art on the moving a ime', ['temperature	average e_monthly', 'air_pressure	_monthly', 'humudity_month		ize = (20,5))
Data Covariance and Correlation **Correlation Matrix for the three parameters 'Temperature', 'Air Pressure', 'Humidity' correlation Matrix for the three parameters 'Temperature', 'Air Pressure', 'Humidity' lapha=0.5, figsize=[10, 18]) correlator Matrix for the three parameters 'Temperature', 'Air Pressure', 'Humidity' lapha=0.5, figsize=[10, 18]) correlator dataframe['Temperature', 'Air Pressure', 'Air Pressure', 'Humidity' lapha=0.5, figsize=[10, 18]) correlator dataframe['Temperature', 'Air Pressure', 'Air Pressure', 'Humidity' lapha=0.5, figsize=[10, 18]) correlator dataframe['	#computing your moving dataframe[['temperatur #building the line chad dataframe.plot('Dateti array([<axessubplot:xl 7<="" <axessubplot:xl="" td=""><td>re_monthly', 'air_ art on the moving of ime', ['temperature label='Datetime'>,</td><td><pre>average re_monthly', 'air_pressure <axessubplot:xlabel='dat< pre=""></axessubplot:xlabel='dat<></pre></td><td>_monthly', 'humudity_month</td><td></td><td>— ten</td></axessubplot:xl>	re_monthly', 'air_ art on the moving of ime', ['temperature label='Datetime'>,	<pre>average re_monthly', 'air_pressure <axessubplot:xlabel='dat< pre=""></axessubplot:xlabel='dat<></pre>	_monthly', 'humudity_month		— ten
<pre>xxx = pd.plotting.scatter_matrix(dataframe[['Temperature', 'Air Pressure', 'Humidity']], alpha=0.5, figsize=[10, 10]) xxx = dataframe[['Temperature', 'Air Pressure', 'Humidity']].corr(method='spearman').to_numpy() xxx = xxx</pre>	#computing your moving dataframe[['temperatur #building the line cha dataframe.plot('Dateti array([<axessubplot:xl 75.0<="" 77.5="" <axessubplot:xl="" td=""><td>re_monthly', 'air_ art on the moving of ime', ['temperature label='Datetime'>,</td><td><pre>average re_monthly', 'air_pressure <axessubplot:xlabel='dat< pre=""></axessubplot:xlabel='dat<></pre></td><td>_monthly', 'humudity_month</td><td></td><td>ter air</td></axessubplot:xl>	re_monthly', 'air_ art on the moving of ime', ['temperature label='Datetime'>,	<pre>average re_monthly', 'air_pressure <axessubplot:xlabel='dat< pre=""></axessubplot:xlabel='dat<></pre>	_monthly', 'humudity_month		ter air
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