


```
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
```

Double-click (or enter) to edit

```
my_data = pd.read_csv('/content/btp_244.csv')
my_data.head()
```



	Point ID	disp_(mm)_0	disp_(mm)_1	disp_(mm)_2	disp_(mm)_Magnitude	high_strain_severity	Points_0	Points_1	Points_2	Points_Magnitud
0	0	0.010579	0.005167	-0.013489	0.017905	0	19.6	30.8	4.9	36.834
1	1	0.010633	0.003893	-0.019889	0.022886	0	20.3	30.8	4.9	37.212
2	2	0.009764	0.002787	-0.026940	0.028790	0	21.0	30.8	4.9	37.598
3	3	0.008997	0.002607	-0.033049	0.034351	0	21.7	30.8	4.9	37.993
4	4	0.008244	0.002540	-0.038120	0.039084	0	22.4	30.8	4.9	38.398

Selecting variables of interest

```
vars_of_interest = ["sig_xx_(MPa)", "sig_xy_(MPa)", "sig_yy_(MPa)", "sig_zx_(MPa)", "sig_yz_(MPa)", "sig_zz_(MPa)", "vonMises_(MPa)", "disp(n
selected_data = my_data[vars_of_interest]
```

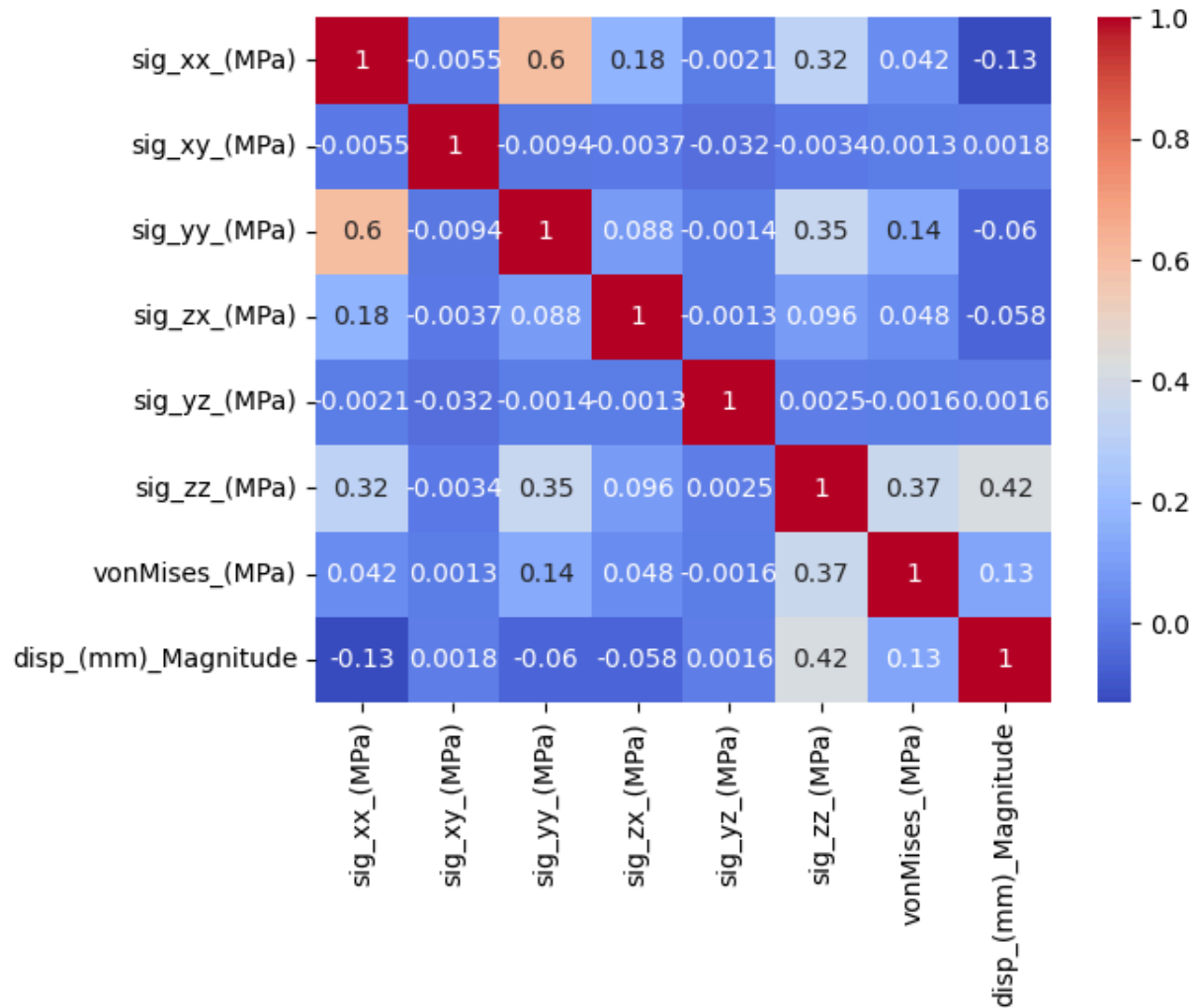
Calculate correltion matrix

```
cor_matrix = selected_data.corr()
```

Visualise the matrix

```
sns.heatmap(cor_matrix, annot=True, cmap="coolwarm")
```

↔ <Axes: >



Could not connect to the reCAPTCHA service. Please check your internet connection and reload to get a reCAPTCHA challenge.