To perform and Data analysis with Co-relation Matrix

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In [3]: import pandas as pd
       import seaborn as sns
       import matplotlib.pyplot as plt
In [5]: df = pd.read_csv("C:\\Users\\SAICOM\\Downloads\\student_scores.csv")
In [6]: print("First 5 rows of the dataset:")
       print(df.head())
       First 5 rows of the dataset:
          Hours Scores
           2.5
                    21
            5.1
                    47
           3.2
                    27
                    75
          8.5
                    30
       4 3.5
In [7]: correlation_matrix = df.corr()
       print("\nCorrelation Matrix:")
       print(correlation_matrix)
       Correlation Matrix:
                  Hours Scores
       Hours 1.000000 0.976191
       Scores 0.976191 1.000000
In [8]: plt.figure(figsize=(10, 8))
       sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm', linewidths=0.5)
       plt.title('Correlation Matrix Heatmap - Student Scores')
       plt.show()
```

