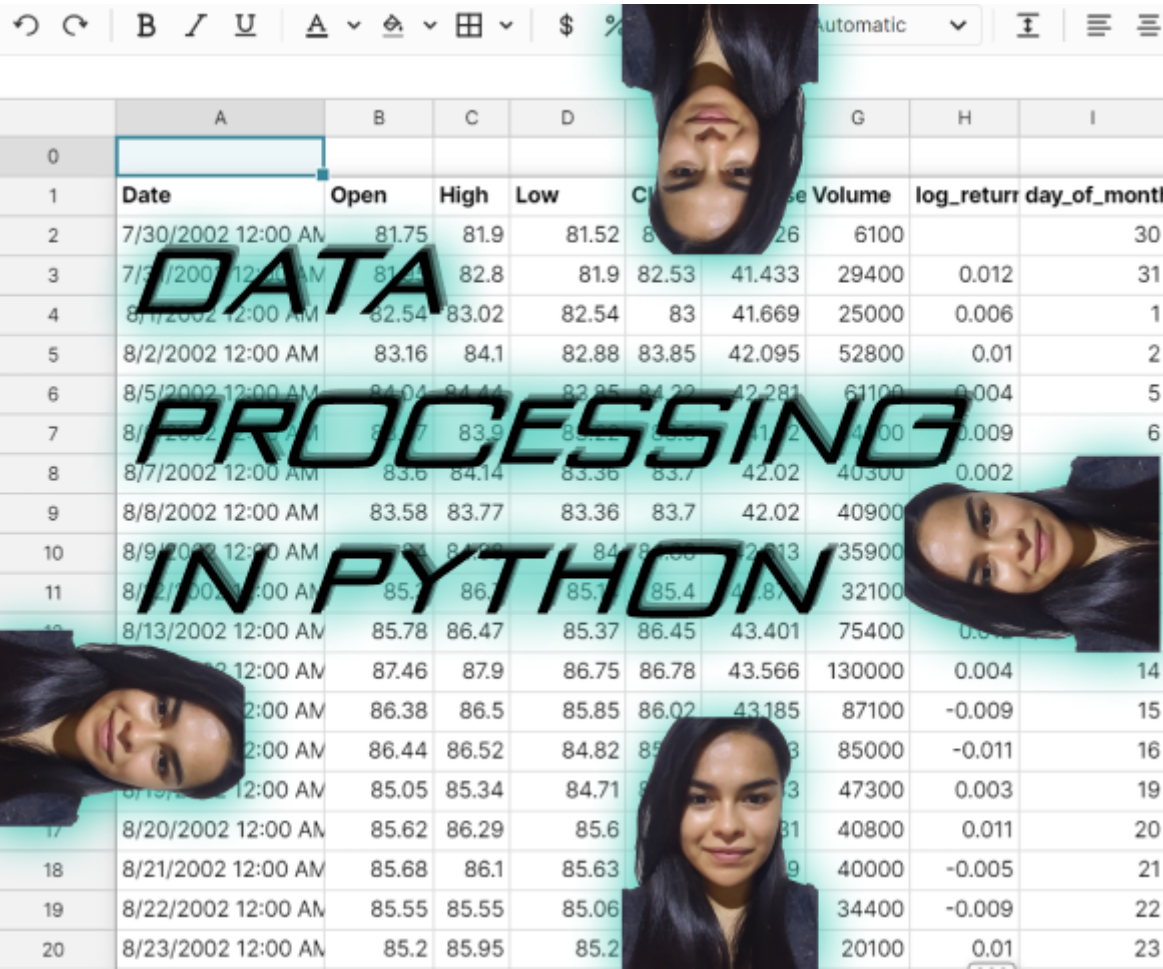


29/11/2023: Data Processing in Python



| | A | B | C | D | | G | H | I |
|----|--------------------|-------|-------|-------|-------|--------|------------|--------------|
| 0 | | | | | | | | |
| 1 | Date | Open | High | Low | Close | Volume | log_return | day_of_month |
| 2 | 7/30/2002 12:00 AM | 81.75 | 81.9 | 81.52 | 81.76 | 6100 | | 30 |
| 3 | 7/31/2002 12:00 AM | 81.75 | 82.8 | 81.9 | 82.53 | 41433 | 0.012 | 31 |
| 4 | 8/1/2002 12:00 AM | 82.54 | 83.02 | 82.54 | 83 | 41669 | 0.006 | 1 |
| 5 | 8/2/2002 12:00 AM | 83.16 | 84.1 | 82.88 | 83.85 | 42095 | 0.01 | 2 |
| 6 | 8/5/2002 12:00 AM | 84.04 | 84.44 | 83.85 | 84.22 | 42281 | 0.004 | 5 |
| 7 | 8/6/2002 12:00 AM | 83.7 | 83.9 | 83.22 | 83.53 | 41172 | 0.009 | 6 |
| 8 | 8/7/2002 12:00 AM | 83.6 | 84.14 | 83.36 | 83.7 | 4202 | 0.002 | |
| 9 | 8/8/2002 12:00 AM | 83.58 | 83.77 | 83.36 | 83.7 | 4202 | 0.002 | |
| 10 | 8/9/2002 12:00 AM | 83.58 | 83.77 | 83.36 | 83.7 | 4202 | 0.002 | |
| 11 | 8/12/2002 12:00 AM | 85.7 | 86.1 | 85.1 | 85.4 | 4202 | 0.002 | |
| 12 | 8/13/2002 12:00 AM | 85.78 | 86.47 | 85.37 | 86.45 | 43401 | 0.004 | |
| 13 | 8/14/2002 12:00 AM | 87.46 | 87.9 | 86.75 | 86.78 | 43566 | 0.004 | 14 |
| 14 | 8/15/2002 12:00 AM | 86.38 | 86.5 | 85.85 | 86.02 | 43185 | -0.009 | 15 |
| 15 | 8/16/2002 12:00 AM | 86.44 | 86.52 | 84.82 | 85.53 | 85000 | -0.011 | 16 |
| 16 | 8/19/2002 12:00 AM | 85.05 | 85.34 | 84.71 | 84.83 | 47300 | 0.003 | 19 |
| 17 | 8/20/2002 12:00 AM | 85.62 | 86.29 | 85.6 | 85.81 | 40800 | 0.011 | 20 |
| 18 | 8/21/2002 12:00 AM | 85.68 | 86.1 | 85.63 | 85.9 | 40000 | -0.005 | 21 |
| 19 | 8/22/2002 12:00 AM | 85.55 | 85.55 | 85.06 | 85.06 | 34400 | -0.009 | 22 |
| 20 | 8/23/2002 12:00 AM | 85.2 | 85.95 | 85.2 | 85.2 | 20100 | 0.01 | 23 |

Technician: Mayra

This workshop will cover the basics of loading data files into Python, and give an intro to the Matplotlib and Pandas libraries, and explore common issues encountered in using these tools.

Watch the workshop again - Sorry Mayra forgot to put on the Microphone!