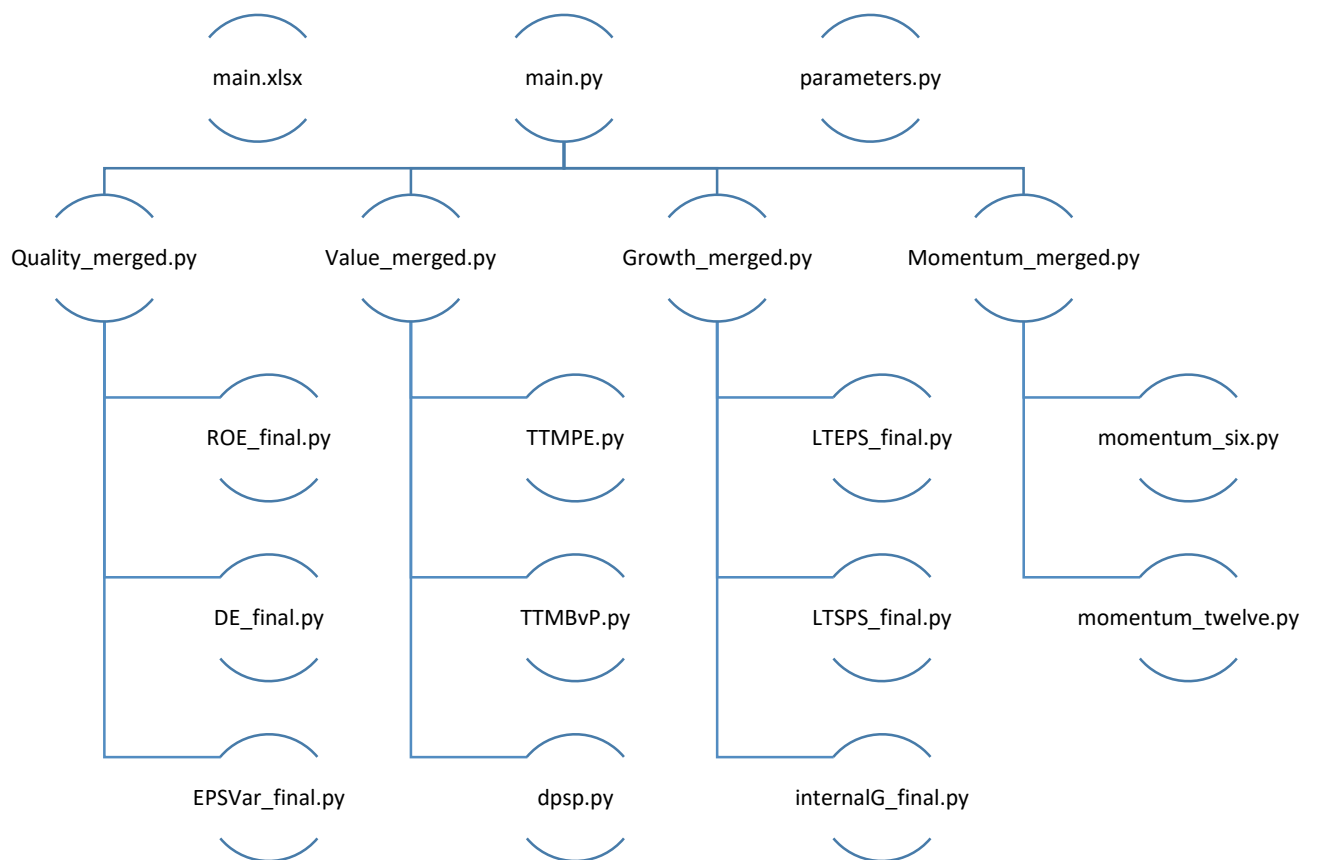


MULTI FACTOR INVESTING CODE INFORMATION & GUIDE

CODE STRUCTURE



STRUCTURE DETAILS

- main.xlsx → The output excel file
- main.py → The code file which you have to **RUN**
- parameters.py → The file contains variable parameters which can be changed
- Quality_merged.py → Runs the 3 quality sub factors
 - ROE_final.py → Calculates the ROE and its Z-Score

- DE_final.py → Calculates the D/E and its Z-Score
- EPSVar_final.py → Calculates the EPS Variability and its Z-Score
- Value_merged.py → Runs the 3 value sub factors
 - TTMPE.py → Calculates the TTM P/E and its Z-Score
 - TTMBvP.py → Calculates the BV/P and its Z-Score
 - dsp.py → Calculated DPS/P and its Z-Score
- Growth_merged.py → Runs the 3 growth sub factors
 - LTEPS_final.py → Calculates LT his EPS growth and its Z-Score
 - LTSPS_final.py → Calculates LT his Sales growth and its Z-Score
 - InternalG_final.py → Calculates current internal growth rate and its Z-Score
- Momentum_merged.py → Runs the 3 momentum sub factor
 - momentum_six.py → Calculates the 6 month price momentum and its Z-Score
 - momentum_twelve.py → Calculates the 12 month price momentum and its Z-Score

DATASET USED

- "All DataSet.xlsx"
 - This excel sheet contains quarterly data for all the auto ancillary companies
- "AutoAncillaries Monthly.xlsx"
 - This excel sheet contains monthly data for all the auto ancillary companies

VARIABLES in parameters.py

1. year_end_const
 - a. This variable is for quarterly year end
 - b. If you want to run for latest quarter available in dataset put np.nan
 - c. Else put the year & quarter in this format → 202303
 - d. **Caution: Don't put monthly end like 202301, only the quarterly ends**
2. year_end_mon
 - a. This variable is for monthly year end
 - b. If you want to run for latest quarter available in dataset put np.nan
 - c. Else put the year & quarter in this format → 202301
3. excel_file_path_quarterly
 - a. This variable is the file path for quarterly data excel sheet
4. excel_file_path_monthly
 - a. This variable is the file path for monthly data excel sheet
5. how_many_year_back
 - a. This variable is only for LTEPS_final.py and LTSPS_final.py files

- b. If you want to calculate for last 3 years then put 3, if for last 5 years then 5
- 6. rolling_quarters
 - a. This variable is only for EPSVar_final.py
 - b. If you want to calculate for last 3 years EPS then put 8, for 5 years put 17
- 7. ROE_ratio
 - a. The weightage you want to give to ROE factor of Quality
- 8. DE_ratio
 - a. The weightage you want to give to DE factor of Quality
- 9. EPSVar_ratio
 - a. The weightage you want to give to EPS Variability factor of Quality
- 10. TTMPE_ratio
 - a. The weightage you want to give to TTM P/E factor of Value
- 11. TTMBvP_ratio
 - a. The weightage you want to give to BV/P factor of Value
- 12. DPSP_ratio
 - a. The weightage you want to give to DPS/P factor of Value
- 13. LTEPS_ratio
 - a. The weightage you want to give to LT his EPS growth of Growth
- 14. LTSPS_ratio
 - a. The weightage you want to give to LT his Sales growth of Growth
- 15. internalG_ratio
 - a. The weightage you want to give to current internal growth rate of Growth
- 16. momentum_six_ratio
 - a. The weightage you want to give to 6-month price momentum of Momentum
- 17. momentum_twelve_ratio
 - a. The weightage you want to give to 12-month price momentum of Momentum
- 18. Quality_ratio
 - a. Weight given to Quality factor
- 19. Value_ratio
 - a. Weight given to Value factor
- 20. Growth_ratio
 - a. Weight given to Growth factor
- 21. Momentum_ratio
 - a. Weight given to Momentum factor

CODE EXECUTION

