Quantitative Equity Investing

MGMT 675: Al-Assisted Financial Analysis



Outline

Motivation: Can we profitably trade on quantitative signals?

- 1. Example dataset
- 2. Returns of portfolios formed by sorting on characteristics
- 3. Regressing returns on characteristics at each date
- 4. Training a model on past data and sorting on its predictions

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Example Data: stocks.csv

- Weekly data on 800 to 1,000 stocks from 2021 to present
- Roughly top half of Russell 2000
 - Sorted on marketcap on Jan 1, 2021. Chose stocks from 1,001 through 2,000.
 - Followed them to present. Down to around 800 now due to mergers, etc.
- All items are as of the end-of-week market close except ret
- ret is the return from close of the date shown through close of the following week
- Original daily data comes from Nasdaq Data Link, specifically Sharadar Equity Bundle
- Download stocks.csv from the Schedule page and upload to Julius.
 Ask Julius to describe the data.

MGMT 675 3

Variables

- open, high, low are for the week
- volume is average daily volume for the week
- closeunadj is split but not dividend-adjusted close for the week
- closeadj is split and dividend-adjusted close for the week
- pb, pe, ps are price to book, earnings, and sales
- evebit, evebitda are enterprise value to EBIT and EBITDA
- lag1 is the return over the week ending on the date shown
- lag4 is the return over the prior 4 weeks including the week ending on the date shown, etc.

• rsi is the Relative Strength Index

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