Date:

10/31/2018

Attendance

- Our Team:
 - Blake, Nick, Lee
- Principal:
 - Ben

Questions going into the meeting

- Covariance matrix issues
- Annualized expected returns calculated correctly? (Geometric Mean?)
- Areas requiring data persistence (portfolio, asset, expected returns, covariance matrix)
- Constraints as percent ranges only over market/geography, property type, or both

Overview on what was Discussed

- X CAGR Compounded Annual Growth Rate : assumes annual data
- Geo Mean to annual with AGR
- How do users want to see returns (annual or quarterly?)
- Pandas with numpy
- Lots of code discussion

Discussion

- X CAGR Compounded Annual Growth Rate : assumes annual data
 - Therefore use pow(x, 4/n)
 - Use ((final / beg index value) to n-th root) 1 gets quarterly
 - (Raise to 4th power) -1 to get annual
- Geo Mean to annual with AGR
- How do users want to see returns (annual or quarterly?)
- Pandas and numpy are buddies
- Covariance / 100
- Use sharpe ratio with risk free rate? (Art , John)
- 2 options for markwotiz
 - Max returns with risk constraint in range(.01, 0.2, 0.01)
 - Two variables returns and risk
- Use std dev formula for risk

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- Std dev as user constraint, %
- DCP Rules
- Nbviewer.jupyter
- Reasonable range of risk constants for efficient frontier (40 values)
 - In terms of std dev preferred over variance
- Persistence wanted in future