

Question 6: Portfolio Optimisation

Ruan Geldenhuys^a

^a*Stellenbosch University, Stellenbosch, South Africa*

| stocks | mv | minvol | sharpe | date | Look_Back_Period |
|----------------|------|-----------|-----------|------------|------------------|
| ADXY Index | 0.01 | 0.4000000 | 0.0769231 | 2002-03-29 | 36 |
| BCOMTR Index | 0.01 | 0.0246831 | 0.0769231 | 2002-03-29 | 36 |
| DXY Index | 0.01 | 0.2294918 | 0.0769231 | 2002-03-29 | 36 |
| LEATTREU Index | 0.01 | 0.0100000 | 0.0769231 | 2002-03-29 | 36 |
| LGAGTRUH Index | 0.01 | 0.1447553 | 0.0769231 | 2002-03-29 | 36 |
| LGCPTRUH Index | 0.01 | 0.0100000 | 0.0769231 | 2002-03-29 | 36 |
| LP05TREH Index | 0.01 | 0.0100000 | 0.0769231 | 2002-03-29 | 36 |
| LUACTRUU Index | 0.01 | 0.0100000 | 0.0769231 | 2002-03-29 | 36 |
| LUAGTRUU Index | 0.01 | 0.1210699 | 0.0769231 | 2002-03-29 | 36 |
| MSCI_ACWI | 0.40 | 0.0100000 | 0.0769231 | 2002-03-29 | 36 |

There you go. An optimised portfolio according to three different methods of optimisation. I output the first ten rows in the data frame here.