Budget = B

¿E [1,2,=,4,5]

So amount invested in stock i

bi amount invested in bond i

ci amount invested in crypto i

Osi opining price of stock i

Obi opining price of bond i

Oci opining price of crypto i

Y si risk associated with bond i

Y bi risk associated with bond i

Y cturns of the assets

Y ci risk associated with crypto i

Maximize: Expected returns $\frac{5}{5} = \frac{5i}{0si} \frac{E(v_{si}|o_{si}) + bi}{0si} \frac{E(v_{ii}|o_{si}) + ci}{0ci} \frac{E(r_{ci}|o_{ci})}{0ci} - \beta(\alpha_{si} + \alpha_{bi} + \alpha_{ci})$

 $\beta \rightarrow n$ sk parameter