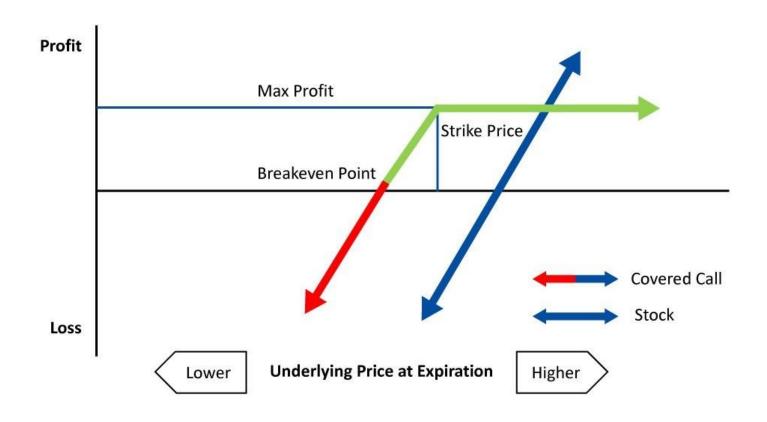
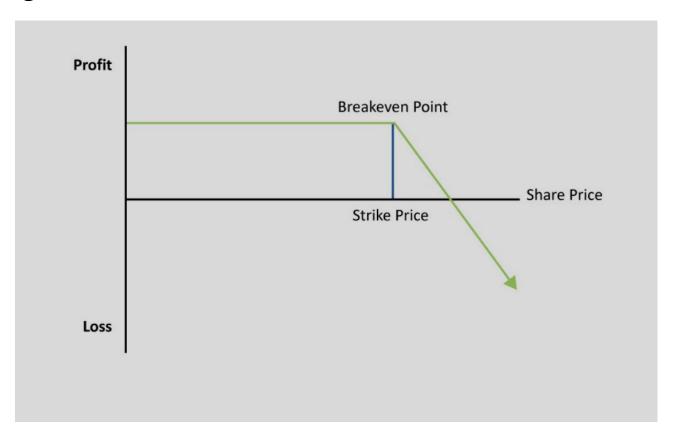
Smart systematic Short strangle

Covered call payoff



Put selling



Two obvious strategies

- Low frequency one: triggered by a liquidity need and the will not to sell your BTCs:
 you sell covered calls in the money with a long duration (> 6months) and you get an
 immediate huge premium (around 50% of notional) but you have sold the upside of
 your BTCs, but at least you keep them if the price is under K at expiry
 - => high yield structured products

 Middle frequency one: you roll call options on a weekly basis with a strike very unlikely to be hit (cumulated with a stop loss) and you compound the premium.

Mix covered call/put selling (strategy combo ½-½)

we roll call/put options on a weekly basis with a tailored call/put strike (cumulated with a stop loss) and compound the premium.

We use a stop loss and epic phase detector to lessen our losses.

A very conservative approach of 50% slippage is chosen to compute the premium when the stop loss is hit.

call/put strike price BTC



smart strike price from the spot in %

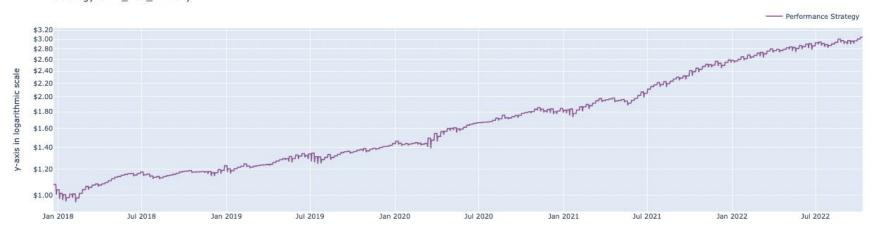


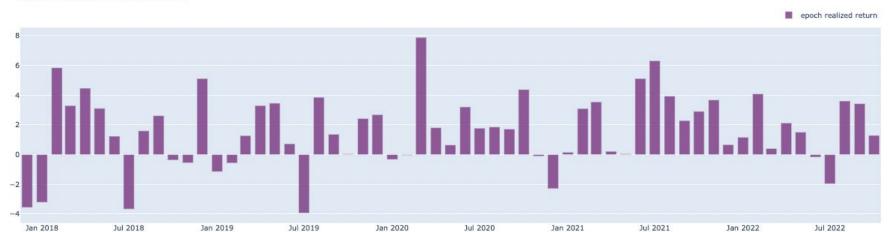
Drawdown chart



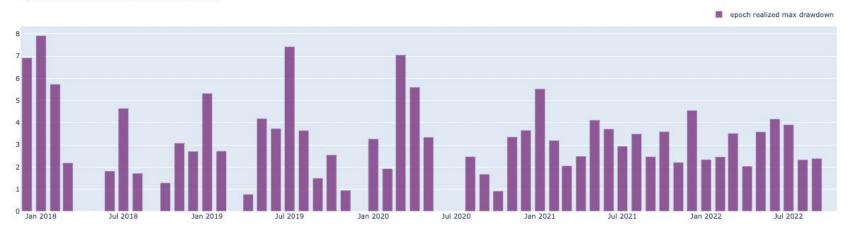


Strategy CALL_PUT_RANGY)



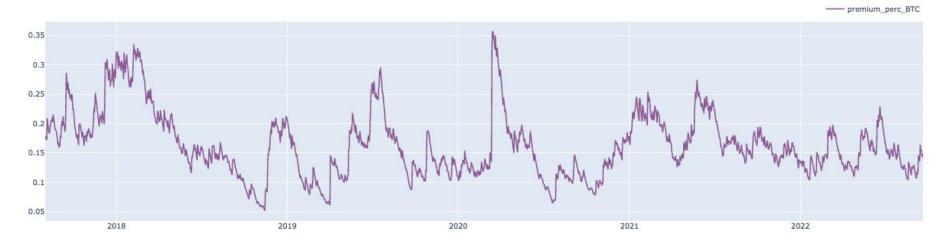




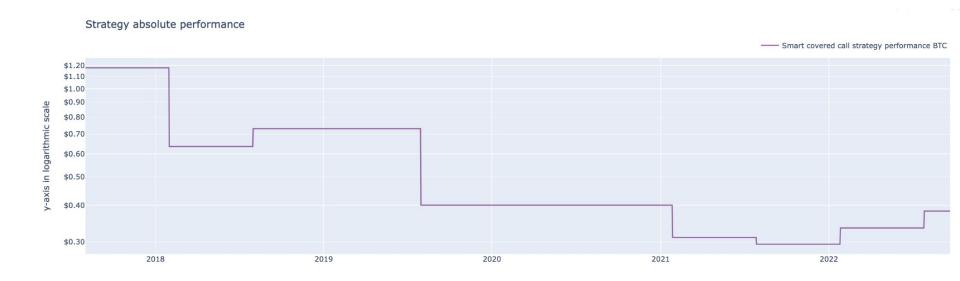


Structured Products/low frequency: huge time to maturity: big premium

Premium as notional percentage over time at the money 6 months duration



Systematic rolling covered call at the money 6 months: losing money

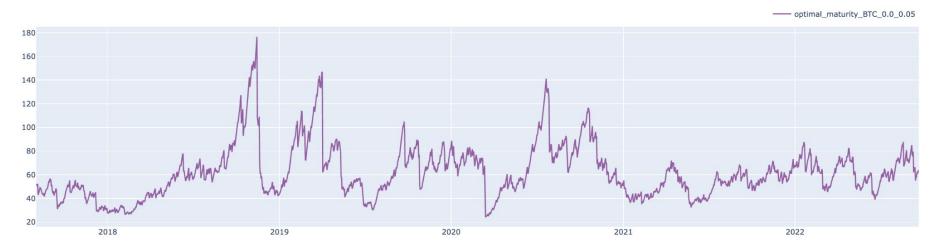


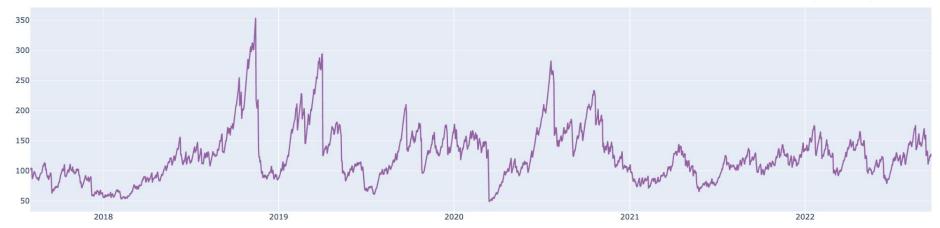
Making sure you earn at least R =15% on your BTC

- Compute the maturity T such that premium P(S0, T) in the money (strike S0) is such S0+P(S0,T) = S0*(1+R)
 - => sell the call option at Toptim: you guarantee the yield but you cap your gain at S0
- We can adjust the strike price to allow a bullishness flavour: S1 = S0*(1+B),
 B being the bullishness flavour.
 - => Compute the maturity T such that premium P(S1, T) slightly above the money (strike S1) is such S0+P(S1,T) = S0*(1+R)

Making sure you earn at least R% on your BTC (upside totally capped B=0)

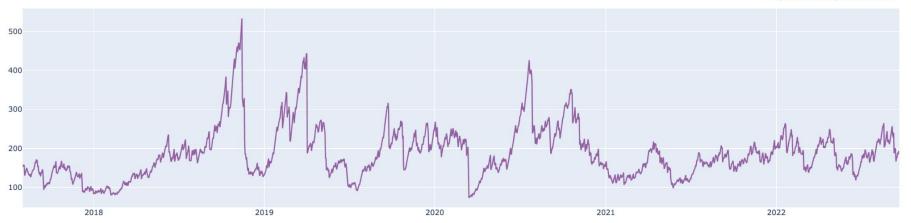










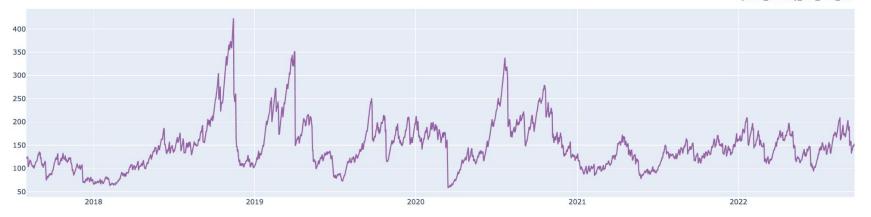


Making sure you earn at least R% on your BTC (upside capped at B=5%)



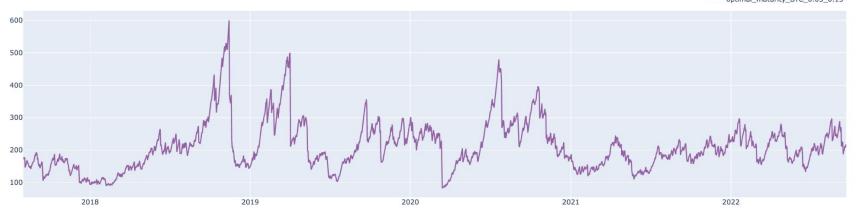
Optimal Maturity



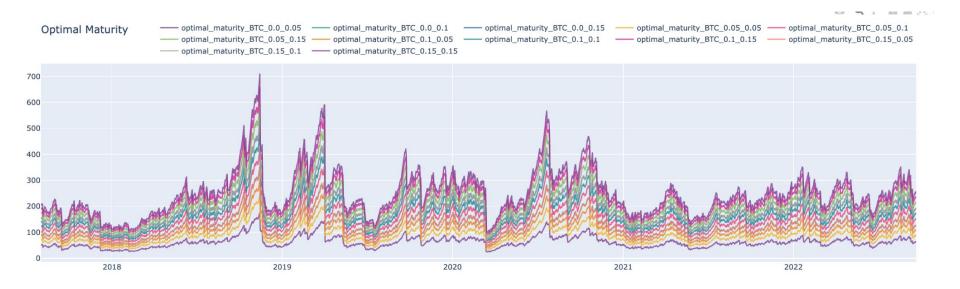


Optimal Maturity

---- optimal_maturity_BTC_0.05_0.15



Optimal maturity



Strategy

 Same study must be done but with market call prices for a more accurate backtest