

Difference b/w $E(R)$ and R_e is ALPHA

CONDITIONAL MODEL

$$R_{HF} = \alpha_1 + \beta_1 F_1 + \beta_2 F_2 \dots \beta_k F_k + D_1 F_1 + \dots D_i \beta_k F_k + \epsilon_i$$

Intercept.

β towards multiple factor will be different for different types of hedge funds.

Dummy variable

NORMAL market

Structured Market

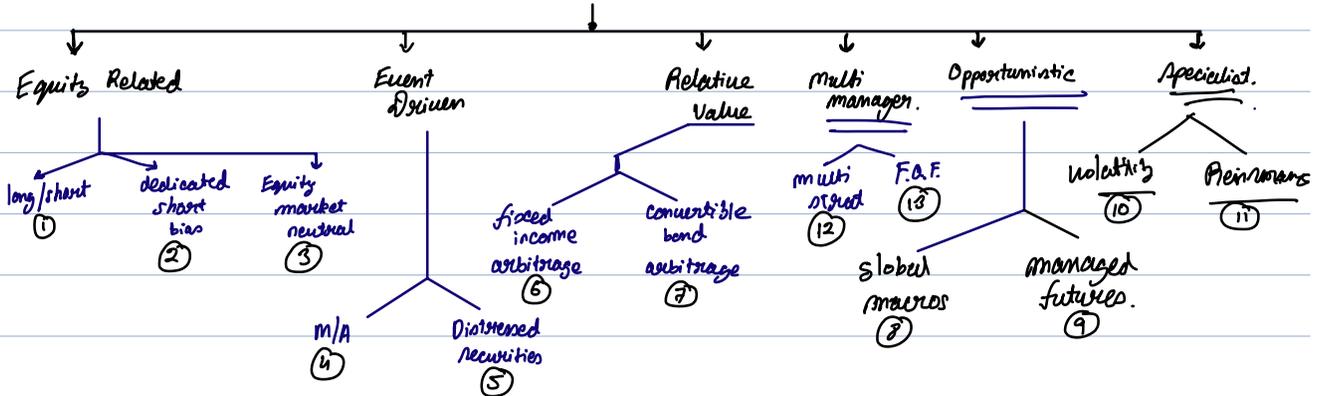
Majost problem: Multi collinearity can be

* problem \bar{c} Sharpe Ratio \rightarrow Goes down even for +ve deviation.

we only penalize manager for -ve "

\therefore use Sortino \rightarrow uses only downside deviation
 \checkmark for hedge funds.

STRATEGIES



1) Long/short: $\rightarrow S^+ \rightarrow$ under valued
 $\rightarrow S^- \rightarrow$ over valued.

goal is to derive alpha.
 \rightarrow portfolio Beta = weighted sum of the, and -ve betas of various long/short positions.
 \rightarrow 40% to 60% net long exposure. \therefore general trend is upwards.

\rightarrow returns comparable to those of a long-only fund. \bar{c} lower σ

② Dedicated Short Bias.

- S^+ → overpriced Z
- activist short seller : → provides research
- lower expectations.
- higher volatility.
- Bottom-up approach → for stock selection.
- relatively little leverage used.
- 0 or -ve correlation → diversification benefit → low exp. returns ↓

③ EQUITY MARKET NEUTRAL

- Near 0 overall exposure.
- weighted Betas = 0.
- Temporarily mispriced securities → Alpha.

SUBTYPES

- Pair Trading → 2 similar stocks → over/under valued → divergence is exploited.
- Sub Trading → Long/short of subsidiary/parent → % of subsidiary owned by parent.
- Multi-class trading → long/short on different classes of shares
 - Tata motors DR
 - Tata motors normal.

Goal

- relatively immune to movements in markets
- modest returns
- Diversification ↑↑↑.

- ④ Soft-Catalyst Event Driven → Investment made before event announced → MORE VOLATILE
- Hard- " " " → " " after " " → LESS "
- possibility of anticipated outcome → EVENT RISK

④ M/A → Insurance on merger activities.

- ↳ If success → Hedge funds get premium.
- ↳ Higher Sharpe Ratios.

⑤ DISTRESSED SECURITIES // Capital Structure Arbitrage.

- ↳ Restructuring.
- ↳ high lock-up periods.
- ↳ low leverage.
- ↳ moderately high levels of illiquidity due to nature of assets being purchased.

RELATIVE VALUE : → exploit valuation differences // hybrid debt // fixed income securities.

- ⑥ Fixed Income Arbitrage : → S^+ ... under // S^- ... over
- leverage
 - Yield curve trade : • macro economic forecasts → anticipated yield curve.
 - Carry Trade : → shorts low yielding, long-high-yielding securities

→ even return from spread narrowing
+ the carry

→ high leverage → volatility → domino effect of margin calls.

⑦ Convertible Bond Arbitrage: → regular coupon payments ↔ common-stock shares.

↓
Best during normal market conditions.

• From Implied Volatility

• liquidity

• volatility modest.

SB⁺ + (2S⁻)

↓
short equity exposure stems from delta hedging

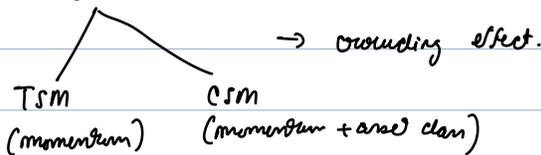
⑧ Opportunistic Hedge Fund Strategies.



⑨ Global Macro strategies. → Identify a global trend early.

→ TOP DOWN ANALYSIS

⑩ Managed Futures → desired derivatives position.



⑪ SPECIALIST

