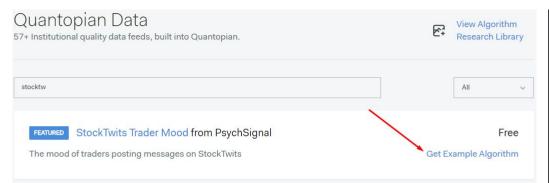
Quantopian

Miguel Angel Ortiz Marin - 1302504680 miaortizma@unal.edu.co

algo 1: Cross-Sectional Example

- Standard Template for a working Quantopian Contest Algorithm
- Use Stocktwits Feeling

algo 2: PsychSignal Sample Algorithm (Stocktwits)



```
class Value(CustomFactor):
    inputs = [morningstar.valuation_ratios.book_value_yield,
              morningstar.valuation_ratios.sales_yield,
              morningstar.valuation_ratios.fcf_vield]
    window_length = 1
    def compute(self, today, assets, out, book_value, sales, fcf):
        value_table = pd.DataFrame(index=assets)
        value_table["book_value"] = book_value[-1]
        value_table["sales"] = sales[-1]
        value_table["fcf"] = fcf[-1]
        out[:] = value_table.rank().mean(axis=1)
class Momentum(CustomFactor):
    inputs = [USEquityPricing.close]
    window_length = 252
    def compute(self, today, assets, out, close):
        out[:] = close[-20] / close[0]
class MessageVolume(CustomFactor):
    inputs = [stocktwits.total_scanned_messages]
    window length = 21
    def compute(self, today, assets, out, msqs):
        out[:] = -np.nansum(msgs, axis=0)
```

Problems:

- Market Exposure
- Risk Constraints
- General Software
- Obsolete Databases

Resultados

