

# Rahul Ray

## Derivative Trader

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Derivative trader with 1+ years of experience in global and Indian financial markets. Currently working on quantitative trading strategies in equity markets and have implemented couple of profitable strategies in virtual trading. Highly enthusiastic about futures of quantitative trading. Fast learner, finished MTech at age of 19, becoming one of the youngest IITians to accomplish this.

## EXPERIENCE

### Edelweiss Financial Services Ltd. *Trader (Junior Associate)*

*Jul 2017 - Current*

My work as a Derivative Trader with Global Derivative Trading desk include:

- Traded part of team's funds, maintained a consistently profitable account.
- Took short-medium term (1-5 days), long/short positions on interest rate based products.
- Developed strategies based on macroeconomic analysis and risk constraints.

My work as a Sales Trader with Algorithmic Trading and DMA (Direct Market Access) desk include:

- Increasing our clientbase by pitching out algo-execution products to institutional fund managers.
- Helping clients of our algorithmic execution products make best use of them.
- Staying updated with market developments, and keeping our clients informed.

## PROJECTS

### Live(sim) trading short-term reversal strategy in US equity market:

**Backtest**(2007-2017):      Alpha: **0.27**    Beta: **0.64**      Sharpe Ratio: **1.95**      Annual Return: **37.6%**

**Live-sim**(10 Sep'18):      Returns: **2.48%** vs **(-ve)3.92%** (S&P500)      (Current Date: 23 Oct '18)

Implemented an equity trading strategy on Quantopian which tries to hold equity assets that it has categorised as being too oversold and bets on a small reversal in their price. This strategy generates alpha by better allocation of capital and timing of trades and its risk constraints prevent any position from making 1% of loss to the portfolio or taking more than 10% of capital.

## EDUCATION

### IIT(BHU) Varanasi

Integrated BTech and MTech Dual Degree Course

- MTech in Industrial Management
  - MTech Dissertation about use of Nonlinear Autoregressive Network with Exogenous input (NAR-X) in forecasting daily closing values of BSE-Sensex
- BTech in Mechanical Engineering

## SKILLS

**Industry Skills:** Financial Derivatives, Systematic Trading, Machine Learning

**Technical Skills:** Python, NumPy, Pandas, Scikit-learn

## CERTIFICATES

- NISM Series XIII: Common Derivatives
- NISM Series VII: Security Operations and Risk Management