Simulation / Data Science
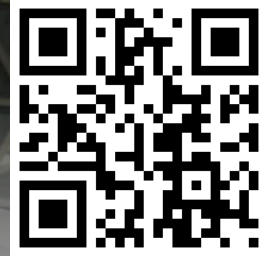
What it is?

- **Sophisticated set of algorithms**
  - That goes from quantitative model to a transformative business model
  - Performs prediction, scenario planning, dynamic forecast and reforecasting
- **Help expedite decisions**
- **Make precognitive moves**
- **Beat competition with smart analytics**
- Boiling all the strategies, processes and technologies together to drive exponential growth!!

How you may use it

Examples:

Push Corporate Innovation
- Generate excitement
- Formulate a vision of the future
- Develop the relevant use cases
- create roadmap, establish targets
- Prioritize resources, assign roles and accountabilities
- Align the organization culture
- Orchestrate the transformation
- Disrupt the market with new ways to beat the competition

Open new revenue source by developing a commercially viable analytic product

Perform sentiment analysis

Measure deterministic and stochastic risk factors and optimize use of capital

Automate and replace costly processes

Why you should care?

Because "algorithms have come to rule our world" Christopher Steiner

"This is your last chance. After this, there is no turning back. You take the blue pill - the story ends ...", The Matrix

Bayesian Decision Trees
Discrete Time Markov Chain
N-gram Probabilistic Language Model
Game Theory Nash Equilibrium
Complex Event Processing
Time Series Analysis

Descriptive | Dignostic | Predictive | Prescriptive

Make Money

Not just the algorithms, but also the business model for your quantum growth. Derive new values, enhance operations efficiency, reduce risks, and capture market opportunities (500+% growth and more).

Our Offerings

Big Data Game Plan

- Discover big data use cases, crystalize business opportunities
- Evaluate and implement new technology, conduct feasibility study
- Help establish an innovative lab, set the agenda, and lead projects
- Put in place capabilities chain model, metrics / balanced scorecard

Quantitative Model

- Forms hypothesis
- Collect data
- Study correlations
- Recognize pattern(s)
- Process signals, sort variables
- Train the computer, develop algorithms
- Test hypothesis, assess implications
- Visualize network data

Risk Modeling / Investment Strategies

Basel III, VaR, Credit Metrics, Principal Component Analysis, KMV, Arbitrage, Systematic Macro, Distressed, Monte Carlo Simulation, α / β Hedge, Volatility

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