I Know First



🕉 UBS





Investment Selection

Using Artificial Intelligence

DEEP LEARNING IN FINANCE



Yaron Golgher, CEO - yaron@iknowfirst.com







Dr. Lipa Roitman - Co-Founder and CTO

- Over 20 years of research and experience in artificial intelligence (AI) and machine learning (ML) fields
- Concept of IKF's algorithm has crystallized following years of his prior research into the nature of chaotic systems
- Head of IKF's R&D Team
- PhD from the Weizmann Institute of Science Yaron Golgher Co-Founder and CEO
- Over 17 years of experience in managing and leading IT projects for financial and financial institutions
- Formerly **Partner and division manager** for a **leading Israeli consulting firm** focusing on forecasting, budgeting and IT projects in the financial industry
- MBA from Ben Gurion University, B.Sc. in Industrial Engineering from Tel-Aviv University

Unique R&D Team



YARON GOLGHER

ECONOM

- PhD's , AI and Machine Learning Experts
- Prof. Yakov Yakubov, a Mathematician From Tel Aviv University
- Developers, Computer Science and IT professionals
- Applied Mathematicians & Statisticians
- Finance professionals
- IDF Veterans Intelligence/8200 Unit/Mamram





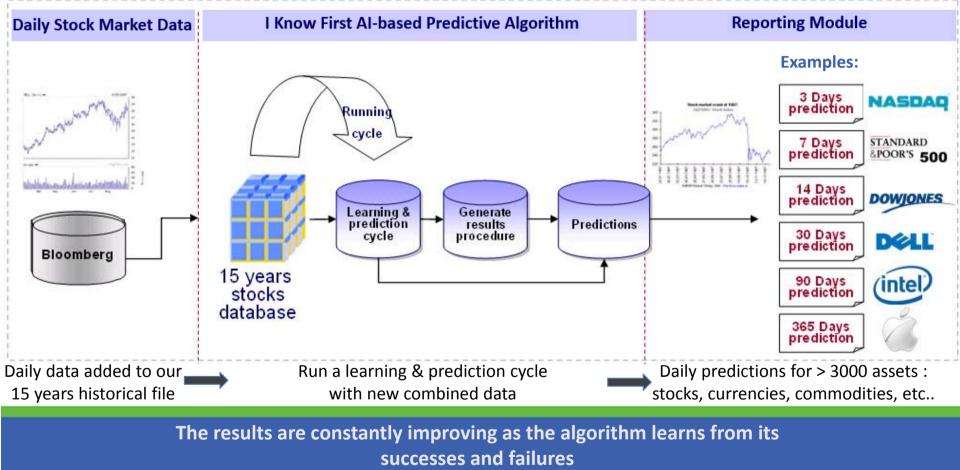
What Do We Do?

Daily trading - rankings based on the short-term signals, filtered predictability





How We Do It – Daily Prediction Process





How We Do It – I Know First AI Technology

I Know First developed proprietary machine learning algorithm:

- Cutting edge Deep Learning approach, incorporating most recent research
- Self-learning, Flexible and scalable, Adaptive modelling of the capital markets through multi-layered artificial neural networks (ANN)
- Supervised/reinforcement learning
- Genetic Algorithms (GA)
- Unique predictability indicator as the fitness function and quality measure of the forecast

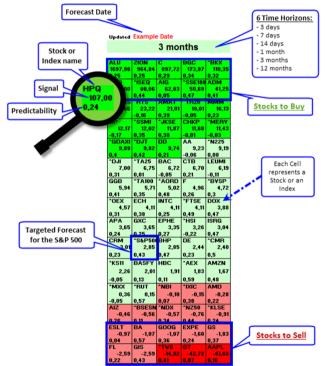
Unique self-learning forecasting algorithm, covering a constantly growing universe of currently over 3000 assets, which allows to

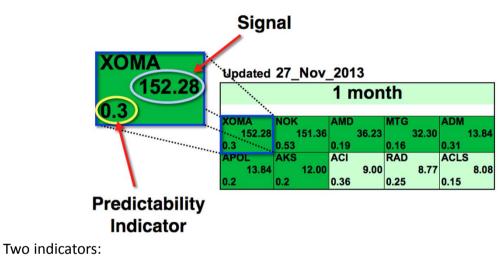
- Separate and focus on the most predictable assets
- Identify investment opportunities, generate trading ideas and develop systematic trading strategies utilizing AI-based forecasts



How We Do It – Daily Forecast

Daily AI-Based Stock Forecast





- Signal Predicted movement of the asset
- **Predictability Indicator** –The <u>historical correlation</u> between the past algorithmic predictions and the actual market movement for each particular asset)
- \rightarrow Key to identify and focus on most predictable markets and securities, enhancing the overall performance



Tiered Solutions Offering





Wealth management solutions – systematic investing





The Opportunity : UBS Business Areas

UBS

Applications Of Deep Learning:

