



Stock Forecast Based On a Predictive Algorithm.

## About I Know First

### **I Know First Algorithmic Services**

I Know First is a fintech company that provides state of the art self-learning, AI based algorithmic forecasting solutions for the capital markets to uncover the best investment opportunities. The company provides daily investment forecasts based on an advanced, self-learning algorithm. The AI Algorithm was developed by Dr. Lipa Roitman, a scientist with over 20 years of research and experience in artificial intelligence (AI) and machine learning (ML) fields, who leads our Research & Development team to further develop and enhance the algorithm. Dr. Lipa Roitman is an R&D Chemist with a long record in computer modeling of processes, product development and process development. The concept of the current algorithm has crystallized following years of prior research into the nature of chaotic systems. His unique R&D team consists of PhD's and AI and Machine Learning experts, including IDF intelligence veterans and consults with [Prof. Yakov Yakubov](#), a mathematician from Tel Aviv University.

The underlying technology of the algorithm is based on artificial intelligence, machine learning, and incorporates elements of artificial neural networks and genetic algorithms through which we analyze, model, and predict the stock market. The algorithm is adaptable, scalable, and features a Decision Support System (DSS) to optimize the information produced by the years of data inputted.

The algorithm generates daily market predictions for stocks, commodities, ETF's, interest rates, currencies, and world indices for the short, medium and long term time horizons.

The I Know First algorithm is designed for large financial institutions, banks, and hedge funds in the capital market as well as private investors looking for an advanced algorithmic support system. The algorithm is currently tracking and predicting a growing universe of over 10,000 financial assets.

The I Know First team is focused on providing comprehensive algorithmic solutions to its investors. Employees in each of our R&D, Operations, Analytics, and Marketing departments are dedicated to providing the best products and support to our clients, while maintaining the highest level of ethical conduct and transparency.

**Dr. Lipa Roitman – Co-Founder & CTO**



With over 35 years of research in artificial intelligence and machine learning, Dr. Lipa Roitman has developed algorithms to predict chaotic events in financial markets. Dr. Roitman earned an M.Sc. in chemistry and organic chemistry from Novosibirsk University, a Ph.D. in organic and physical organic chemistry, and photochemistry from the Weizmann Institute of Science, and a post doctorate in polymer chemistry from the University of Akron, and has a background in mathematics and statistics.

Dr. Roitman is the Co-Founder and CTO of I Know First Ltd., the company has used Dr. Roitman's algorithm to predict markets and supply big data solutions for institutional and large private investors since 2010. As the head of R&D, he is responsible for the design, development, characterization, specification, and implementation of algorithmic trading solutions. Other responsibilities include development of quantitative trading strategies, predictive analytics, and development of quantitative trading strategies, algorithmic trading applications, and Big-Data solutions for hedge funds and institutional clients.

**Yaron Golgher – Co-Founder & CEO**



**Co-Founder and CEO of I Know First Ltd., Yaron Golgher has over 20 years of experience leading projects based on forecasting algorithms and predictive analytics, as well as developing quantitative trading strategies, algorithmic trading applications, and big-data solutions for hedge funds and institutional clients.**

**Golgher has extensive knowledge in the design, specification, and implementation of algorithmic trading solutions, and forecasting. In addition, he has a broad range of expertise with advanced costing, budgeting, and planning systems such as Activity Based Costing, Time Based Costing, Rolling-forecast budgeting, Activity Based Budgeting, and standard Costing. Prior to co-founding I Know First, he applied his skills and knowledge to a variety of sectors including industrial, service, finance, infrastructure, and transportation organizations. After obtaining a Bachelor of Science in industrial engineering from Tel-Aviv University and an EMBA from Ben Gurion University, Yaron Golgher worked as a division manager at OIC, a leading Israeli consulting firm that specializes in managerial accounting, information, and control.**

**Currently the Co-Founder and CEO of I Know First Ltd., the company has used their algorithm to predict markets and supply big data solutions for institutional and large private investors since 2010.**

### **Unique R&D Team**

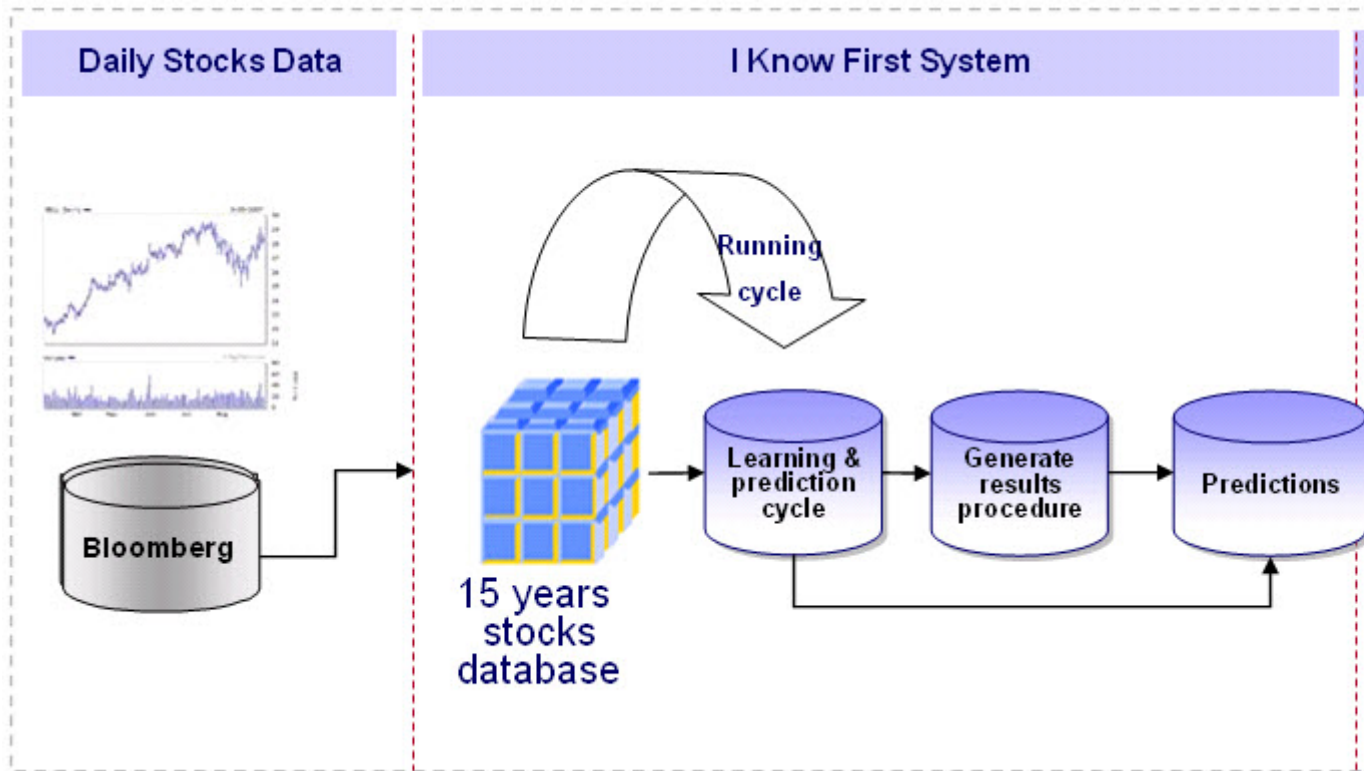


- **Prof. Yakov Yakubov, a Mathematician From Tel Aviv University**
- **Developers, Computer Science and IT professionals**
- **Applied Mathematicians & Statisticians**
- **Finance professionals**
- **IDF Veterans – Intelligence/8200 Unit/Mamram**

### **Finance – Analytics team**

- **Economists & Financial Analysts**
- **Engineering BSc's**
- **US capital market experts**

**About: The I Know First self-learning algorithm analyzes, models, and predicts the stock market. The algorithm is based on Artificial Intelligence (AI) and Machine Learning (ML), and incorporates elements of Artificial Neural Networks and Genetic Algorithms.**



The system outputs the predicted trend as a number, positive or negative, along with a wave chart that predicts how the waves will overlap the trend. This helps the trader to decide which direction to trade, at what point to enter the trade, and when to exit.

Since the model is 100% empirical, the results are based only on factual data, thereby avoiding any biases or emotions that may accompany human derived assumptions. The human factor is only involved in building the mathematical framework and providing the initial set of inputs and outputs to the system.

The algorithm produces a forecast with a signal and a predictability indicator. The signal is the number in the middle of the box. The predictability is the number at the bottom of the box. At the top, a specific asset is identified. This format is consistent across all predictions.

**I Know First In The Media:** I Know First has been featured in a variety of different media outlets as its algorithm produces results that consistently outperform the market and the company gains more and more traction and prominence in the financial world. [Click here](#) to see where I Know First has been featured.

Predictive Universe: I Know First is able to use the self-learning algorithm to study and derive signals from almost any data, and thus we currently offer one of the largest selection of signals in algo-trading.

