

## NLP based Investment Research Analytics Solution

### Summary

The client is one of the leading investment firms in the U.S. and has investments in stock markets across the globe, private companies, startups, hedge funds, etc.

### Challenge

Identifying stocks or investment opportunities that produce very high returns are extremely critical to their success. With increasing number of investment options (growing number of stock exchanges, growth success of emerging markets, startup innovation creating level playing field across the globe), it is becoming practically difficult to sift through all and find potentially attractive investments. Other Challenger are:

- Finding potential in stocks takes enormous amount of time and effort from research analysts
- Highly skilled equity research analysts are difficult to find
- Bringing in consistency in analysis and adherence to quality of research

The research process involves significant effort and take few weeks for any analysts. The larger the set of companies they analyze, the more likely the chance that they find stocks with excellent return potential.

### Solution

Using mAdvisor, an NLP-based research analytics solution was built that analyzes multitude of data sources (financial reports, databases, emails, PDF reports, external equity analyses, social media, etc.) to determine the likelihood of delivering high returns. The solution is aimed at automating the traditional process of equity research analysis by quickly identify stocks with high probability of excellent returns.

- For any new investment opportunity, the tool will perform a very comprehensive analysis and determine the probability of the **stock becoming a winning investment.**

“Uncovering hidden insights from semi-structured and unstructured data has been our biggest win from mAdvisor.”

- IT Director.

- It also provides much deeper analysis on each quantitative and qualitative attribute that might be impacting the **overall investment** return.

The differentiators for the solutions are:

- Ability to work with **diverse set of data** (Excel models, report, emails, PDF, databases, etc.)
- **Holistic solution** to extract patterns and insights using Financial Modeling, Machine Learning, Natural Language Processing, and Web Crawling.
- Enhance research analysts' workflow with quick analysis with **estimated probability** of any stock to become a winning investment
- Built on a highly **customized knowledge corpus** that understands and appropriately assesses qualitative attributes from business commentaries

### Results

The solution was deployed in a private cloud instance of the investment management firm and the equity research analysts from the firm use the tool to identify a list of potential stocks that are more likely to generate extraordinary returns. The client was able to validate the rigor of research and compliance of assessment with their 6-criteria investment philosophy. They were able to identify instances where their forward projections are significantly over-ambitious or little too aggressive.

- The client was able to consider **4X** potential companies for further detailed assessment compared to traditional approach
- The time taken by equity research analysts and the portfolio management teams to build an investment case reduced by over **40%**.

## About mAdvisor

mAdvisor is a patent pending AI & Cognitive Computing platform, which helps enterprises to translate data into meaningful insights and narratives without any manual intervention. Now enterprises can reduce the analytics timelines from weeks to minutes using mAdvisor.

mAdvisor employs cognitive technologies like machine learning, machine reasoning, deep learning, natural language generation, natural language processing and expert rules systems, thereby enabling enterprises to identify revenue streams, enhance customer experience and productivity.

## About Marlabs

Marlabs helps companies adopt digital transformation using Digital360 - a comprehensive digital framework comprising of Digital Product Engineering, Digital Automation, Enterprise Analytics, Cloud, Digital Security and User Experience; delivering a next-generation Digital Customer Experience.

Marlabs' digital life-cycle model delivers rapid innovation using prototyping, co-creation, concept-to-completion and rapid deployment.

Marlabs' innovation labs, "marlabs.next" incubates cutting-edge technologies like Intent-Intelligence, IoT, IoP, Blockchain and Hyper-Personalization.

### Headquarters

Piscataway, NJ

### Website

<https://www.marlabs.com/cognitive-computing-platform/>

Connect with us



**@mAdvisor\_AI**