Investment Agents for The Technological Market <- Tittle

In the technological market a lot of factors affect a company’s success with investors over a long period of time, and consequentially the investors attitude towards technological companies also affects its ability to profit from that company.

Our intention is to explore how changes in the company such as management decisions or product launches affect the business and its success and explore what investment strategies when faces with the company’s decisions lead to the most profit for investors long term and short term.

The investor can buy and sell stock during the stock market open hours, the investor agents try to sell at maximum profit, when buying it considers the company’s financial situation, its latest earnings reports and overall sentiment towards the companies and their management. Investor have varying levels of risk tolerance depending on their personality and financial situations.

Companies can release products, update products, stop producing or supporting products or change the price of products already released, all these actions have consequences that affect consumer sentiment towards the company and its products, this consequently affects investors decisions in relation to the company. Management can also affect investor decisions, though mass layoffs or hiring processes, wage changes for the work force of the company and actions in the life of notorious figures in the company.

We would like to take as many factors as possible into account for our simulations to obtain the most credible results and discover how best to invest in the technological market.

Examples of dependent variables:

* Current Stock Value of a company
* Current Market Sentiment Towards company
* Financial Situation of the investor
* Risk Tolerance of the investor
* Overall stock performance of the company in the last 5 years
* Overall stock performance of the company in the last 3 months / Quarter
* Recent Quarterly Earnings report of the company.

Examples of independent variables:

* Number of investors
* Number of companies
* Time between stock values changes
* Initial funds available to investor
* Initial funds available to new companies