BACKGROUND
Knowledge is power. This applies in particular to the complex global financial system, in which trillion dollar daily cash flows go between different asset classes. This process is of course old, but now the changes occur faster and faster exponentially. It becomes crucial for decision makers to have access to strategic financial information if their company is to survive. This is where machine learning and AI can become very important. For instance, future currency strengths impact the profit of both import and export companies.

DESCRIPTION
Financial data is abundant and comes from governments, central banks, commercial banks, news services such as Reuters, pension funds and hedge funds. Markets of interest include the bond, commodity, forex and stock markets. The project starts with selecting what markets and factors should be studied and then using pattern analysis to find possible correlations between different key factors. The next step is to formulate a self-learning model that can be trained using historical data and then test the predictive power.

EXPECTATIONS
We expect the students to review current solutions and the literature of what has been done already and then develop a new innovative way of financial analysis in line with the description. Communication skills are important, since we intend to include students from other subjects such as finance and corporate finance in the group.

STUDENT PROFILE
Experience of Python, R or GUI design is an advantage as well as experience of working in the financial market.

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ABOUT US
Ola Ekman has a long experience of business development and student supervision at Chalmers and School of Economics and Law at Gbg University. His model of collaboration between academia and companies has earned substantial interest.

Fredrik Wallinder has a long academic experience with a PhD in astrophysics at Lund university, post-doc experience, research at Harvard and teaching physics and astrophysics to undergraduate and graduate students and the general public. He has supervised several master students at Örebro university.