

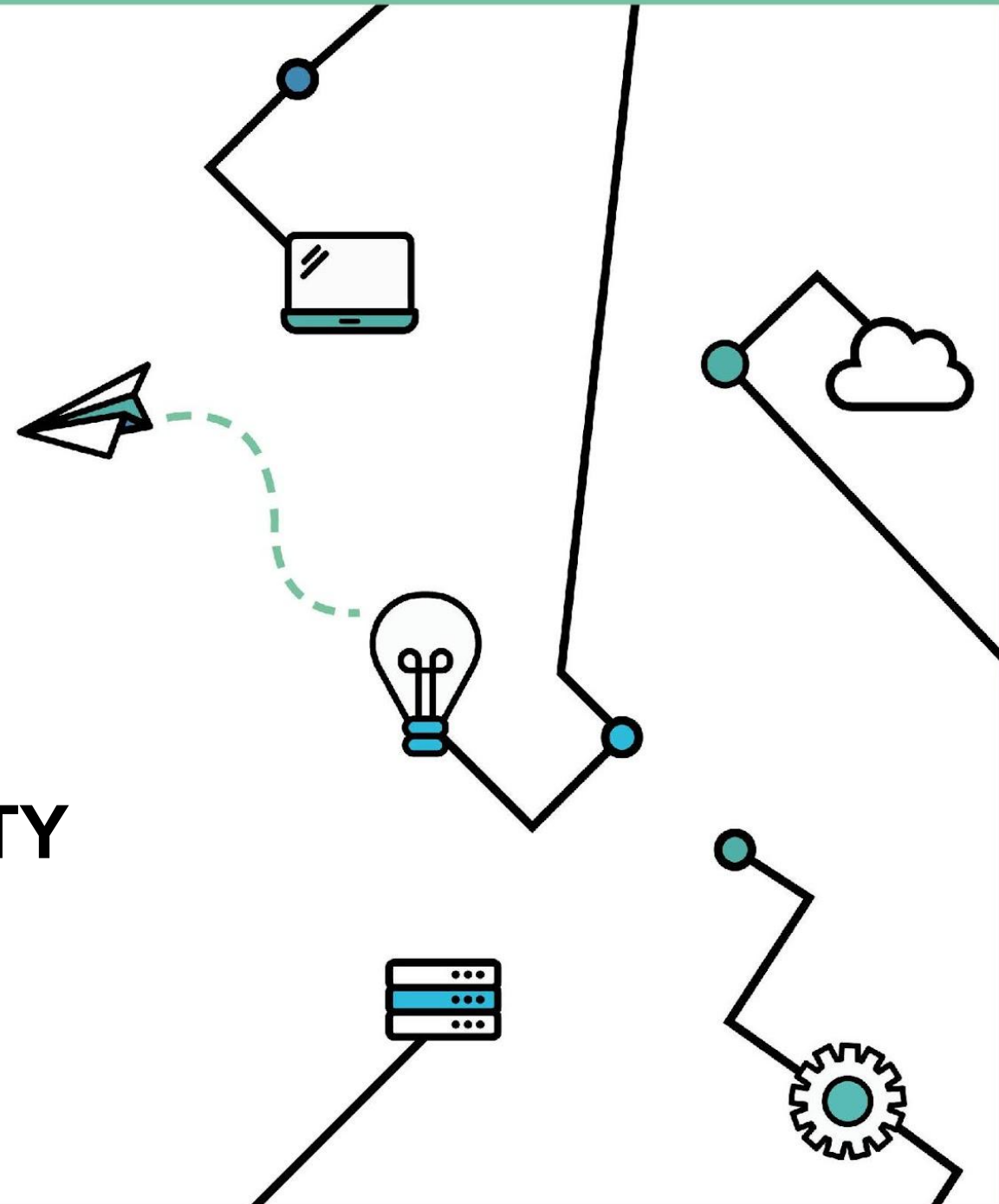


LINKIT

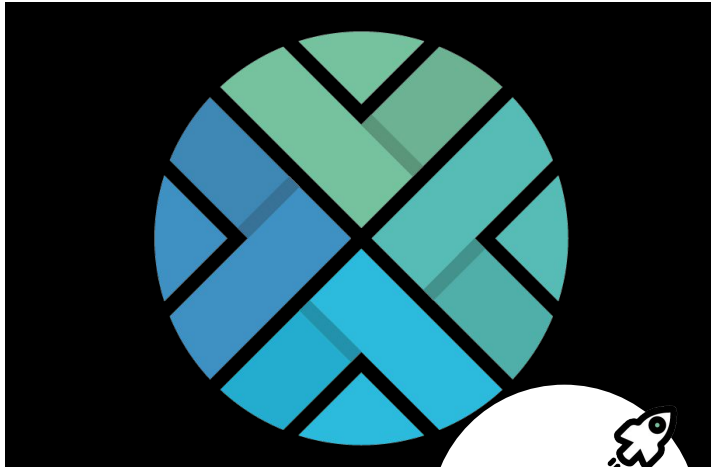
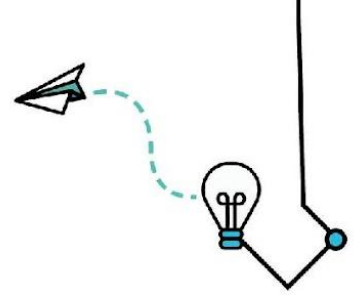
BUILDING IT TOGETHER

ON THE WAY TO FINANCIAL SINGULARITY

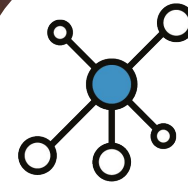
Alyona Galyeva – AI & Data Engineering Lead at LINKIT



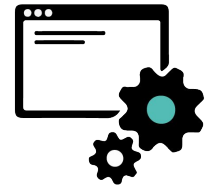
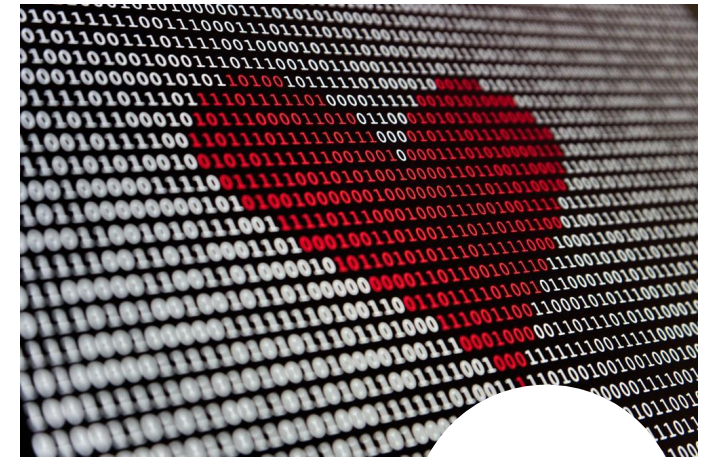
AGENDA



Introduction



AI Solutions
in Finance

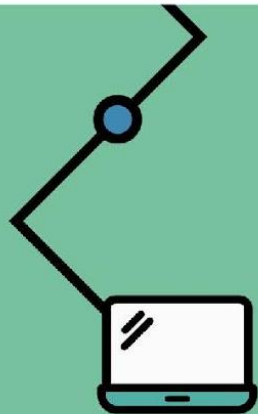


AI Solutions
Implementation



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INTRODUCTION





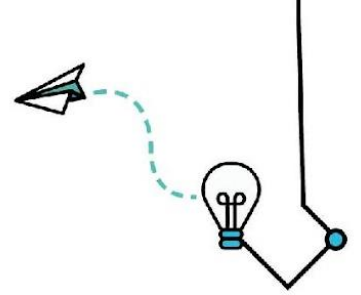
Hello, I am Alyona Galyeva

- AI & Data Engineering Lead at **LINKIT**
 - **PyLadies Amsterdam** Organizer
 - AI Mentor at **WAI Accelerate**
-



WHAT EXCITES US

AT LINKIT IT & INNOVATION



CLOUD

Migrations | Cloud Native
AWS | Azure

DATA

Pipelines | AI | ML
Platforms | Robotics

(MOBILE) APPLICATIONS

Java | .NET
JavaScript | React

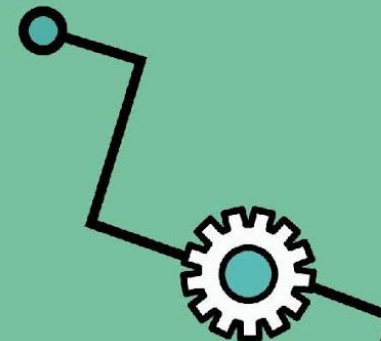
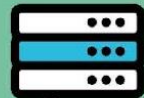
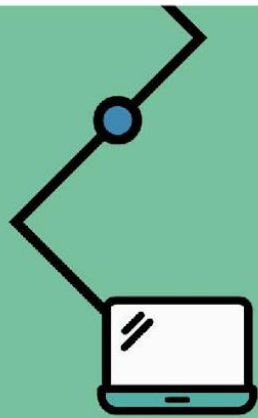
LOW-CODE

OutSystems | Support
Test Automation

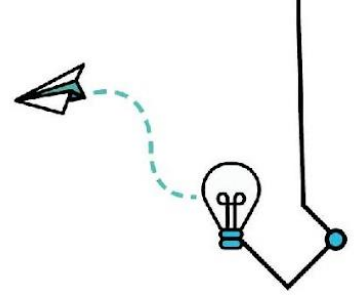


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AI SOLUTIONS IN FINANCE



AI IN FINANCE



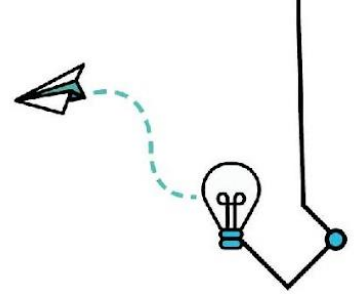
*"According to a report from Goldman Sachs, **machine learning, and artificial intelligence** will enable **\$34 billion to \$43 billion in annual savings and revenue opportunities** within the financial sector by 2025." – CNBC*

*"At RBC Capital Markets eight years ago, **seven out of 10 junior hires** in the equity trading unit had a **business background**. Now, **70 percent of newbies are engineers**." – CNBC*



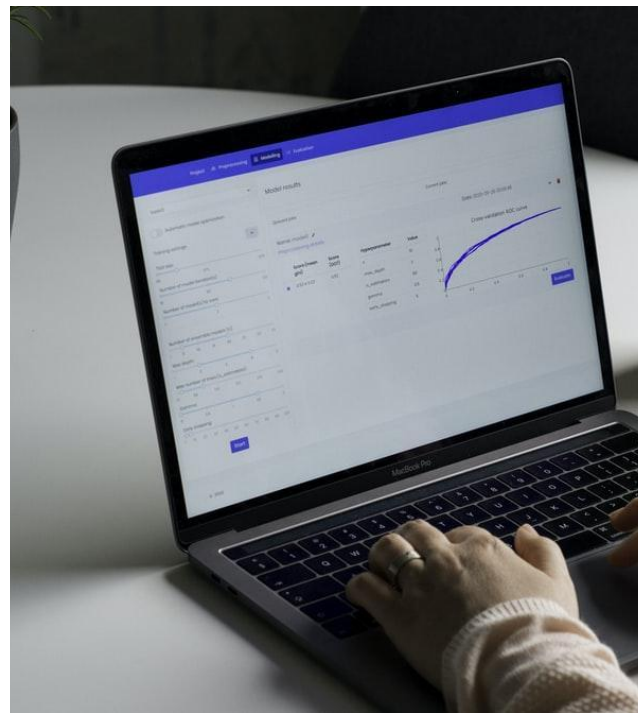


AI FOR TRADE SETTLEMENT



Trade settlement is the process of transferring securities into the account of a buyer and cash into the seller's account following a transaction of a financial asset. Despite the majority of trades being settled automatically, and with little or no interaction by human beings, about 30% of trades need to be settled manually.

The use of machine learning can **identify** the reason for failed trades, **analyze** why the trades were rejected, provide a solution, and **predict** which trades may fail in the future. What usually would take a human being five to ten minutes to fix, machine learning can do in a fraction of a second.

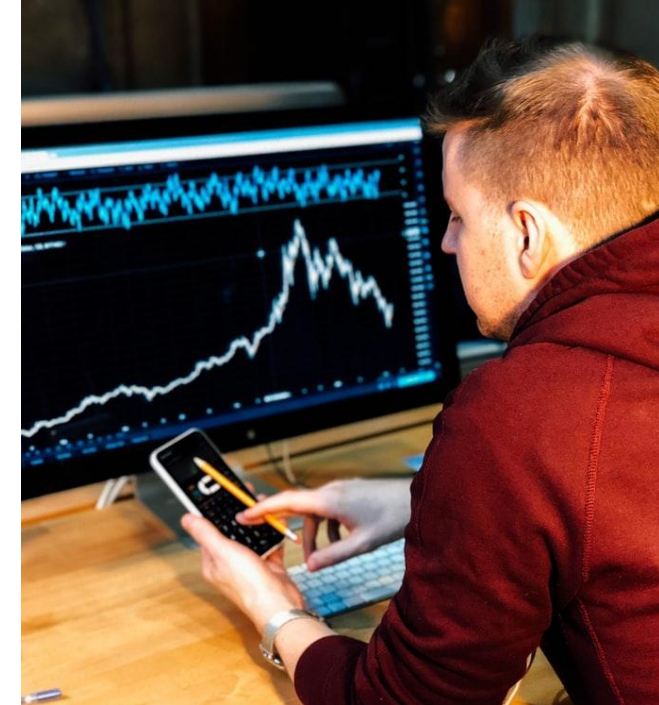


AI FOR PORTFOLIO MANAGEMENT

Asset and wealth management firms are exploring potential AI solutions for improving their investment decisions and making use of their troves of historical data.

One example of this is the use of **robo-advisors**, algorithms built to calibrate a financial portfolio to the goals and risk tolerance of the user. Additionally, they provide automated financial guidance and service to end investors and clients.

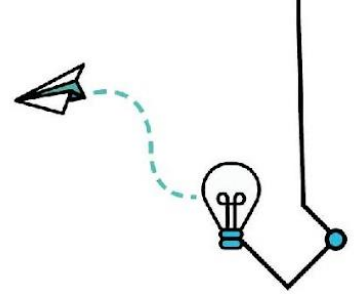
The system calibrates to changes in the user's goals and real-time changes in the market, aiming always to find the **best fit** for the user's original goals. Robo-advisors have gained significant traction among consumers who do not need a human advisor to feel comfortable investing.



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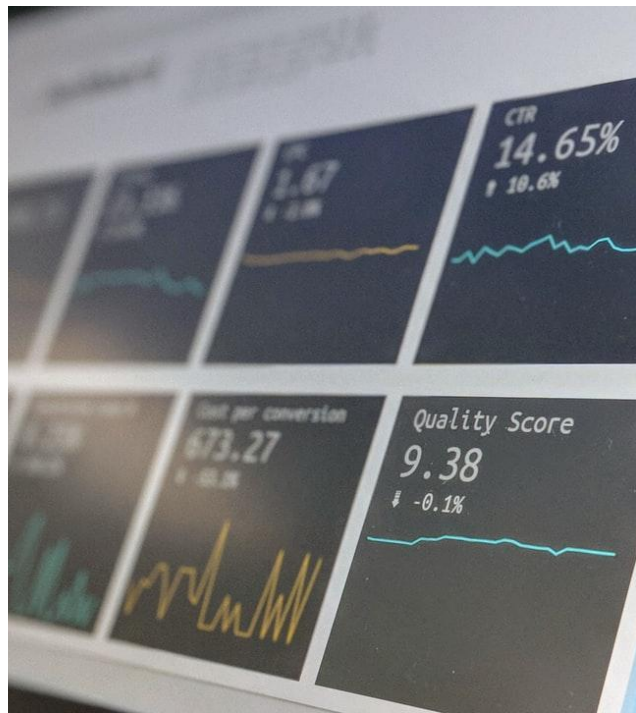
AI FOR ASSET PRICE PREDICTION



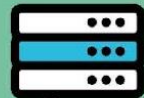
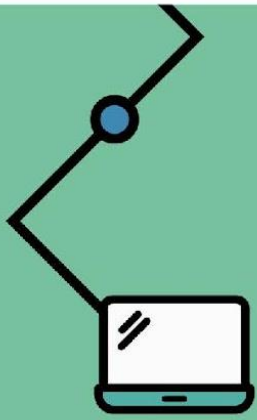
Asset price prediction is considered the most frequently discussed and most sophisticated area in finance. Predicting asset prices allows one to understand the factors that drive the market and speculate asset performance.

Traditionally, asset price prediction was performed by analyzing past financial reports and market performance to determine what position to take for a specific security or asset class.

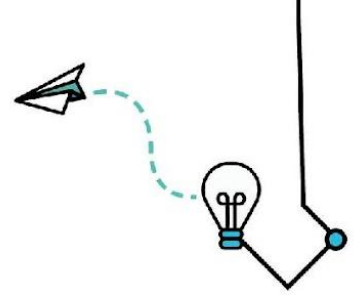
However, with a tremendous increase in the amount of financial data, the traditional approaches for analysis and stock-selection strategies are being supplemented with **ML-based techniques**.



AI SOLUTION IMPLEMENTATION



AI IN FINANCE IMPLEMENTATION

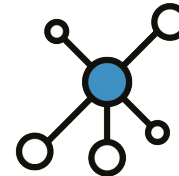


In the quest to make use of AI in a scalable, significant way in finance, players in the financial markets compete for the best resources.

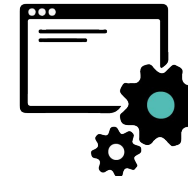
PROFESSIONALS



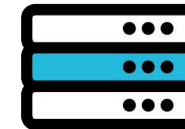
DATA



ALGORITHMS

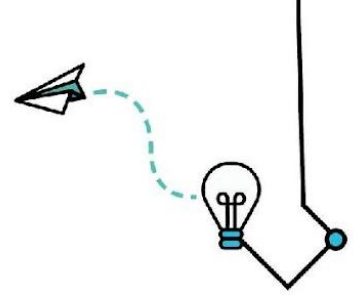


HARDWARE



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GENERAL PRINCIPLES FOR THE USE OF AI BY FINANCIAL INSTITUTIONS **(‘SAFEST’)**



Soundness

Accountability

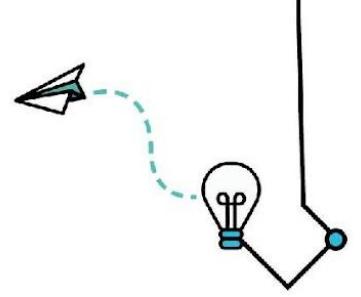
Fairness

Ethics

Skills

Transparency





HOW WE DESIGN AI

AT LINKIT IT & INNOVATION

OUR



- Solution Advisers
- (Cloud) Data Engineers
- Machine Learning Engineers



YOUR



- Subject Matter Experts / PO
- Data Scientists and Analysts



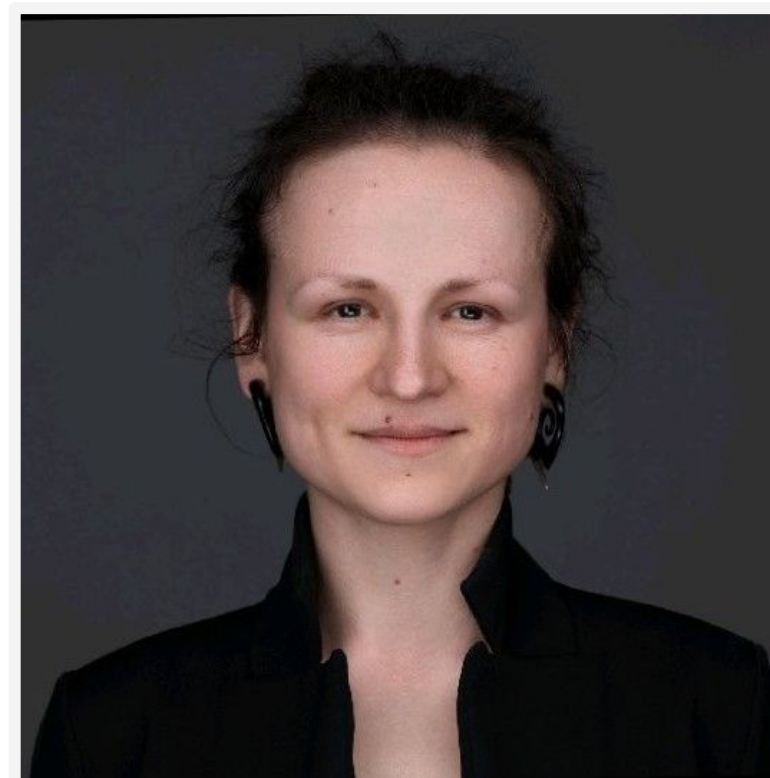
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Let's Talk



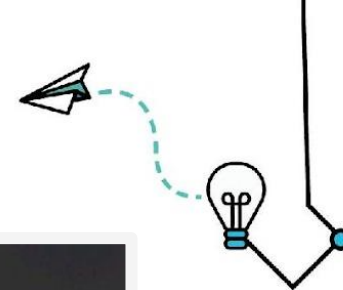
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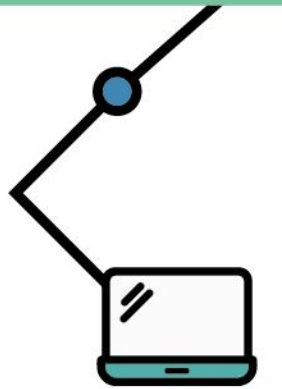
**ALYONA
GALYEVA**

AI & Data Engineering Lead

Alyona.Galyeva@linkit.nl



THANK YOU!



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