



# modulai

**The machine learning agency**

We help our clients solve business problems by taking end-to-end responsibility for planning, development and deployment of state-of-the-art machine learning solutions. Hands-on machine learning delivered.

[modulai.io](https://modulai.io)



# Types of fraud

Cash => digital transactions

- **Phishing / smishing / vishing**, social engineering over email/sms/telephone.
- **Credit card**
- **ID theft**
- **Ponzi**, financial scams

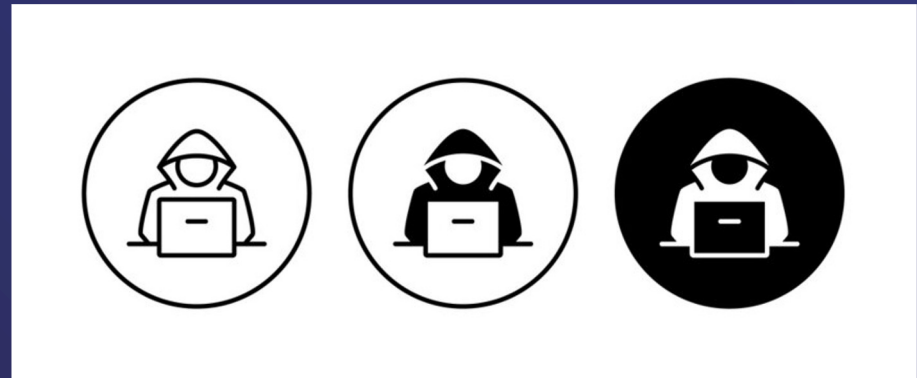




# New fraud types with AI

## Creativity flourish

- **Voice cloning**, voice clone based on just a few reference calls.
- **Buy fraud kits online**, ready-made packages with automation to generate fraud attempts.
- **Speed**, new fraud types are created daily. Traditional ways of working with ML models are too slow to change.
- **Fake news**, spreading fake news in open source LLMs.

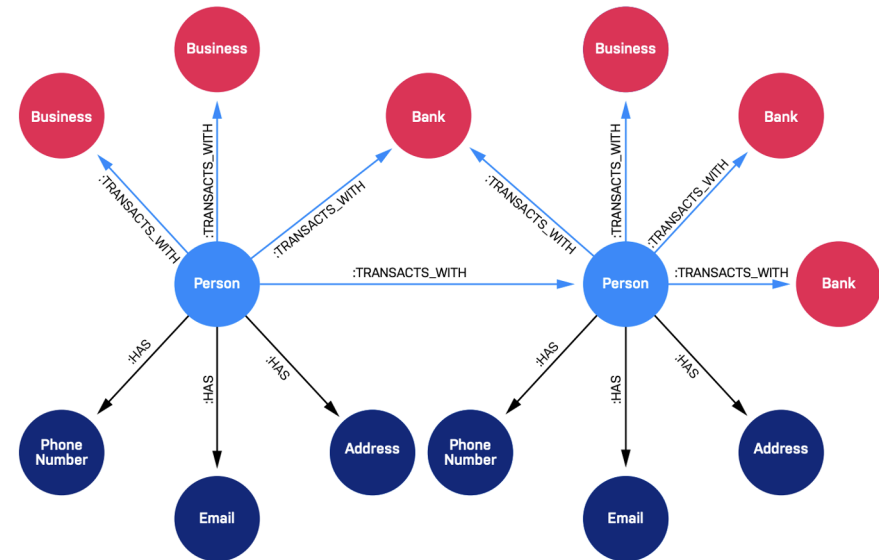




# Graph DB

## Next generation fraud detection system

- **Analyse network structure of financial structures**, no need of converting files into a specific format.
- **Pattern recognition**, we selected the best available model optimized on your requirements.
- **Anomaly detection**, reasoning across several documents and summarize
- Improved fraud scoring
  - Vulnerability scoring
  - Beneficiary scoring
  - Customer profiling



A graph data model for fraud and anomaly detection



# MLOps

From months to day to deploy new code or data

- **Plug & Play** infrastructure
- **Continuous Integration**, every time a code or data is updated the ML pipeline reruns.
- **Continuous Deployment**, automated deployment of new release to production.
- **Reduced TTM for models**, enabled by a new feature calculation backend and MLOps improvements where it makes sense.





# Areas of expertise



## Computer vision

Use images and video streams for improved decision-making or autonomous intelligence



## Natural language processing

Leverage the value in natural language data produced by and for humans. LLM, RAG, LangChain



## Tabular ML and time series

Leverage machine learning on data almost all companies produce



## Personalization and AI for retail

AI models for increased sales, relevant content and cost saving in retail



## AI for Life Sciences

Solutions for treating disease, improving health, and supporting professionals



## AI for Fintech

Better financial decisions by assessing risks and accurate forecasting



**You miss 100%  
of shots you  
don't take!**



Contact us

Let's discuss projects, trainings,  
or partnerships!

[peter@modulai.io](mailto:peter@modulai.io)

+41 793428174