

AI for Tax Evasion Detection in France

12.03.2025

Plan

Policy & Governance 01.

How we organize the use of AI?

Data & Models 02.

How we use the data to detect tax evasion?

Performance & results 03.

How well does it work?

1

Policy & Governance

A decade-long use of AI

Milestones

2014

⋮

Creation of a
dedicated unit

2018

⋮

Strengthening inter-
agency data sharing

2021

⋮

Authorisation to use
social network data

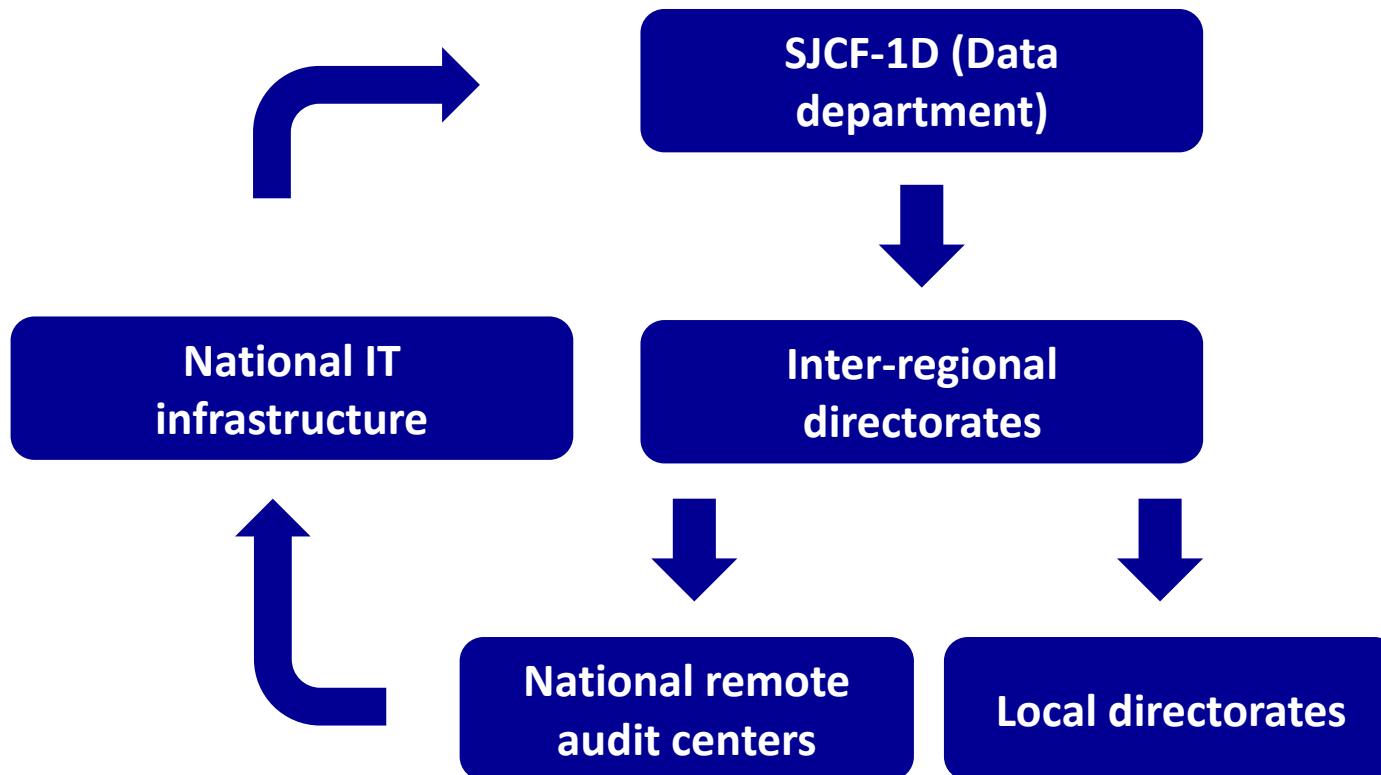
2022

⋮

Deployment of the
GALAXIE
programme

AI is upstream in the process

Organization of the tax audit process

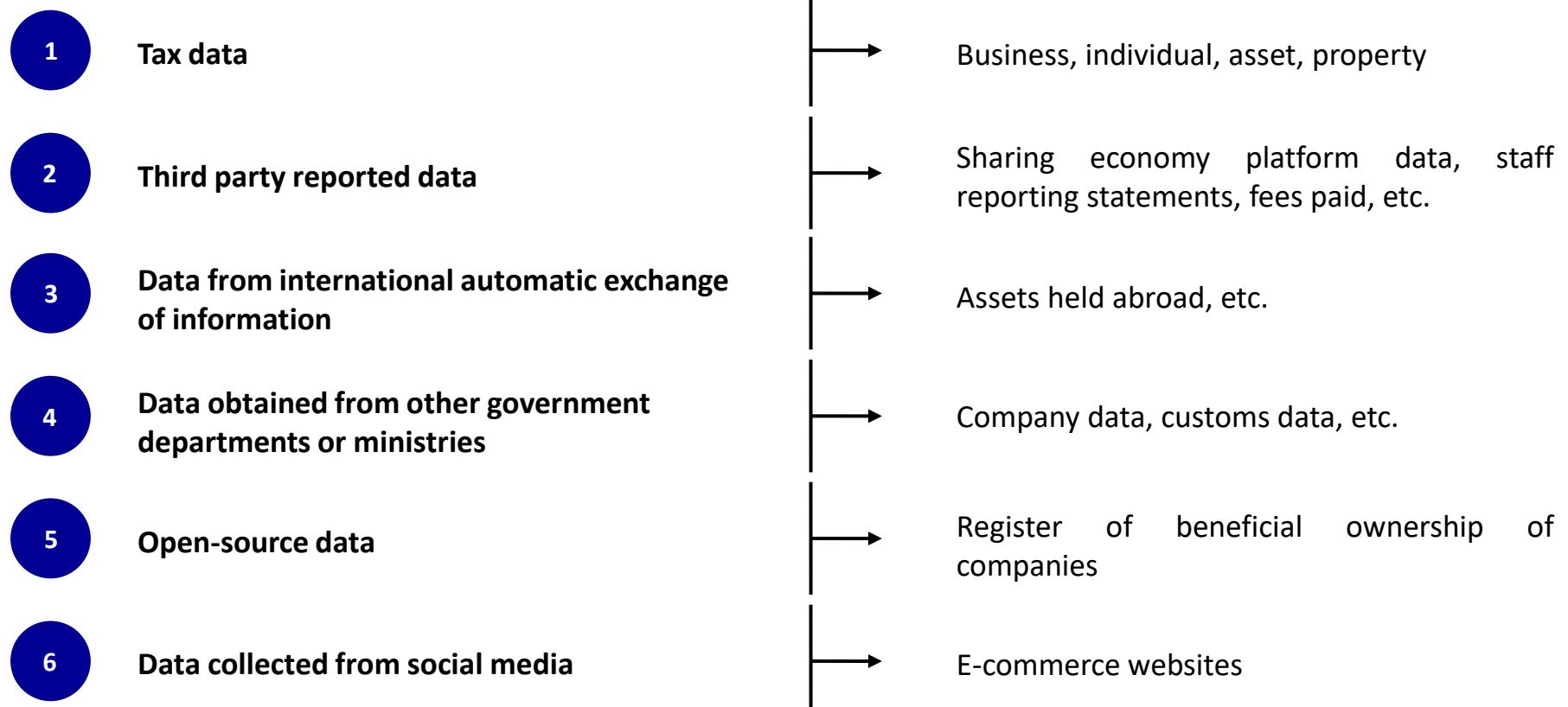


2

Data & Models

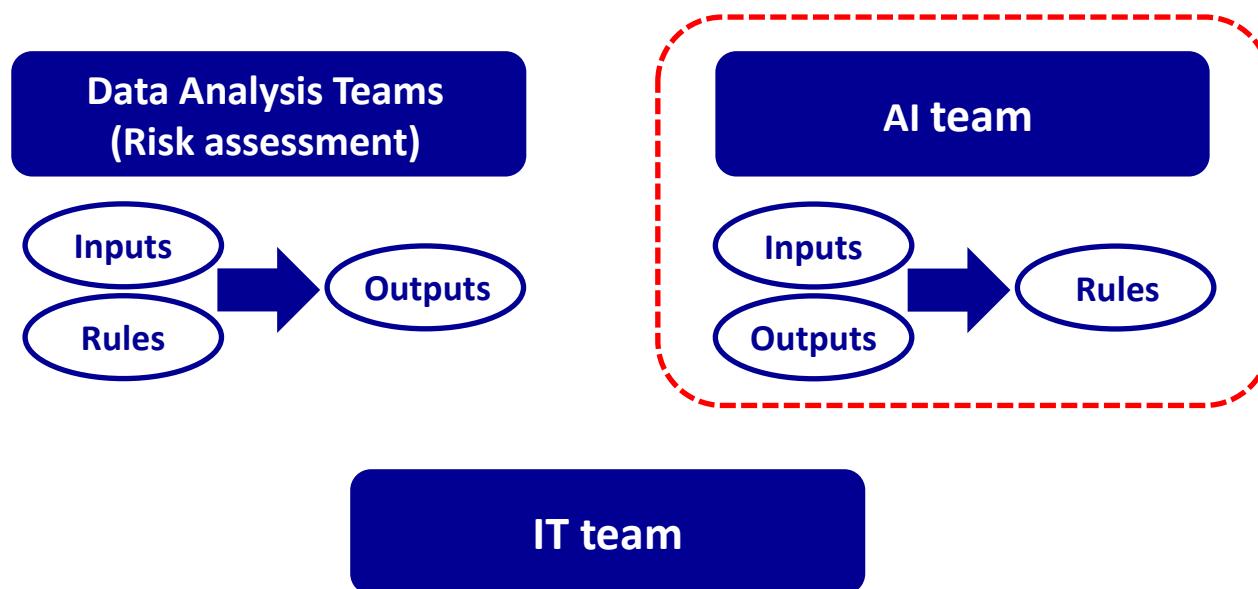
55 data flows are collected and stored

The data department stores terabytes of data every year



The AI team is a part of the data department

Alongside the analysis team for individuals and the analysis team for businesses

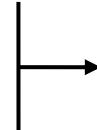


We use 3 main types of models

In the AI team

1

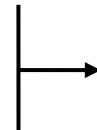
Unsupervised models



Identify homogeneous clusters, then:
• Target the most fraudulent clusters
• Target the most isolated individuals

2

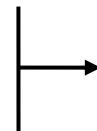
Supervised models



Learn to predict some known quantity, then
compare to detect outliers

3

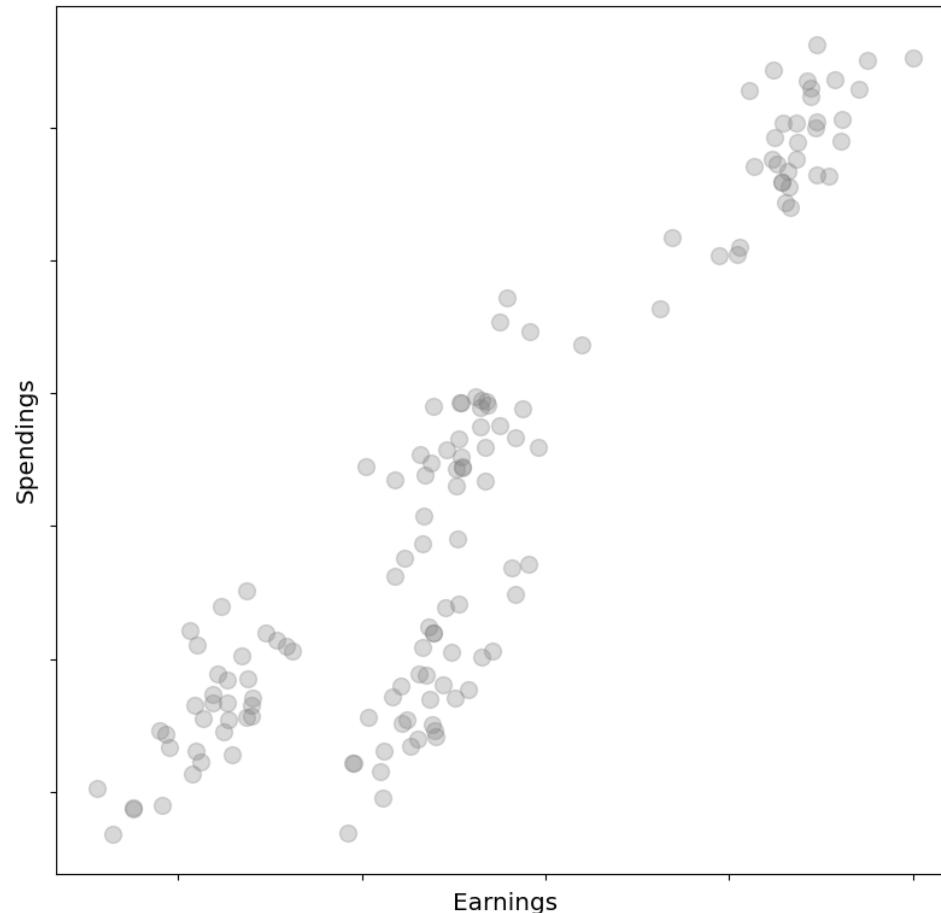
Graph models



Detect fraud networks based on links
between individuals and companies

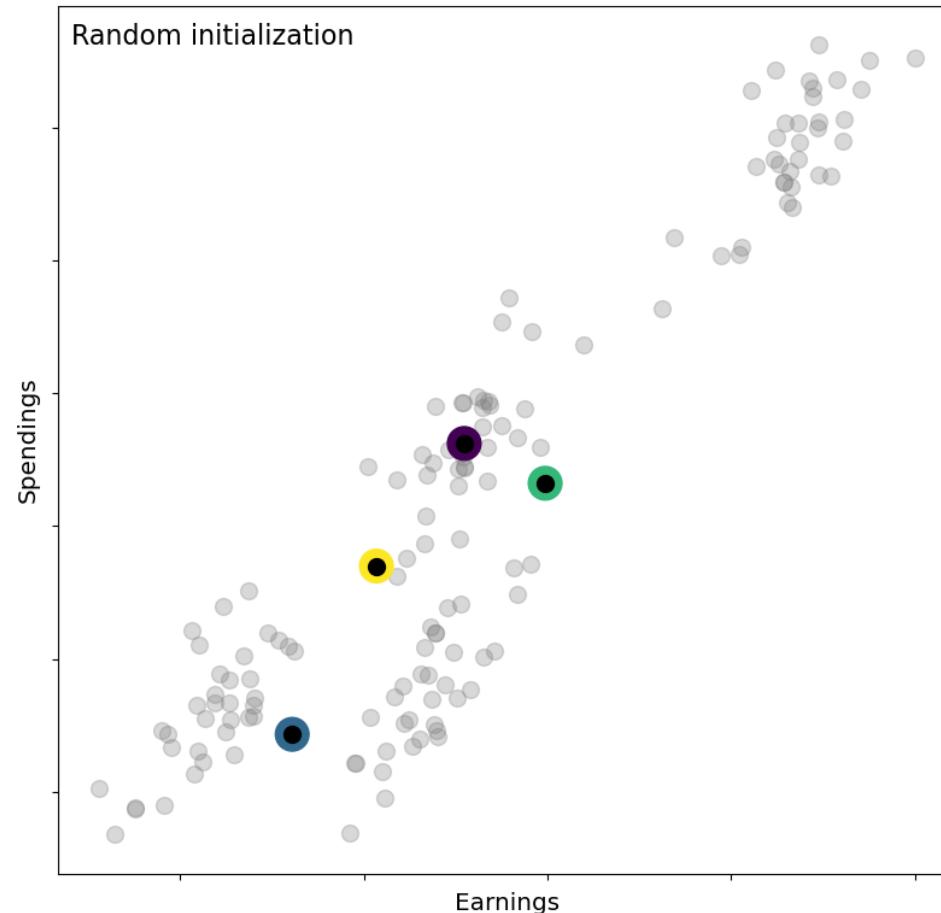
Unsupervised models

Find homogeneous clusters



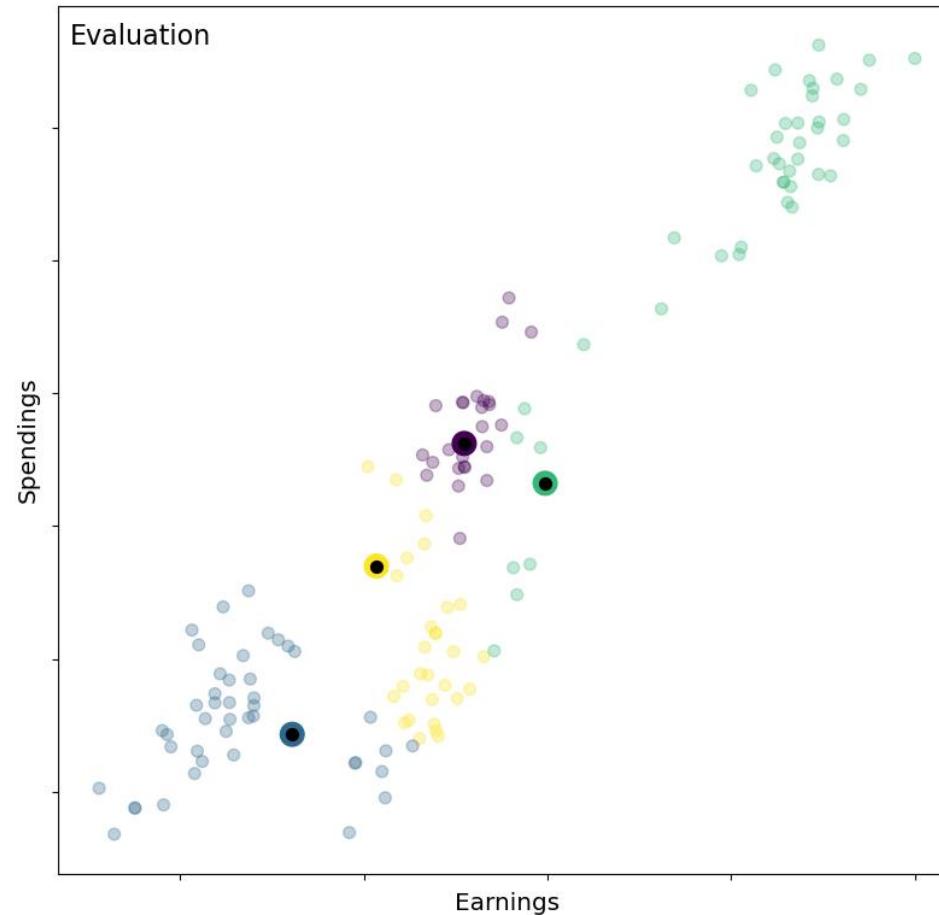
Unsupervised models

Find homogeneous clusters



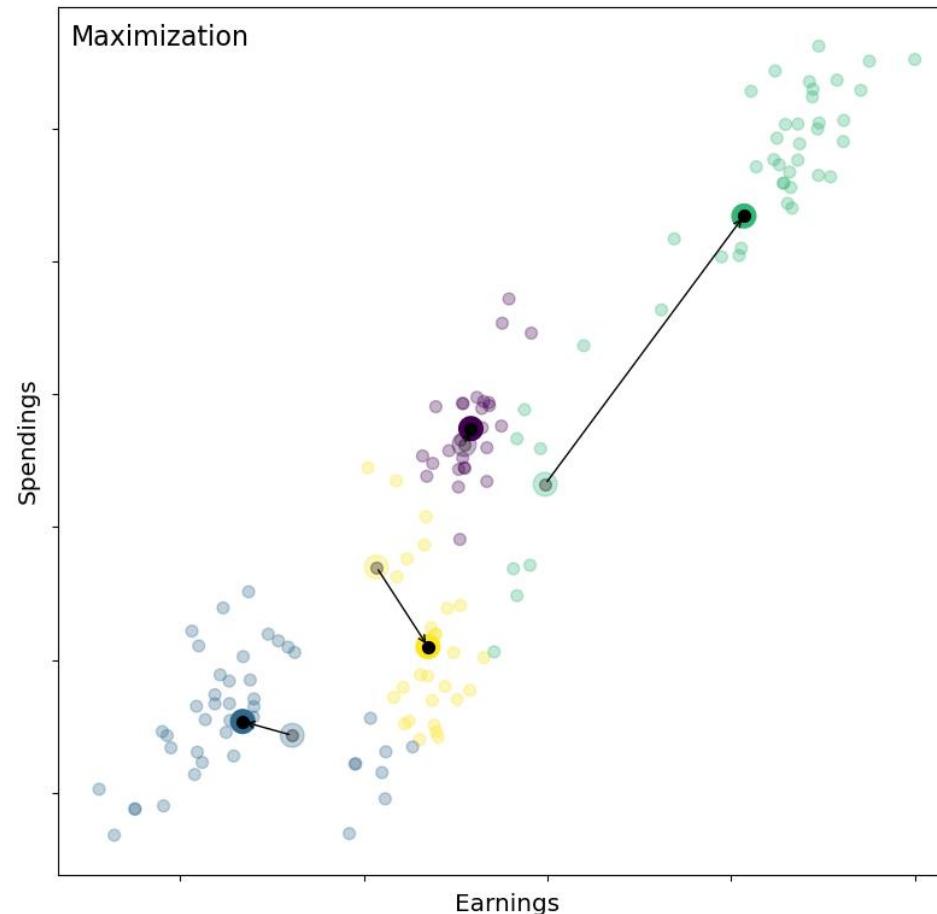
Unsupervised models

Find homogeneous clusters



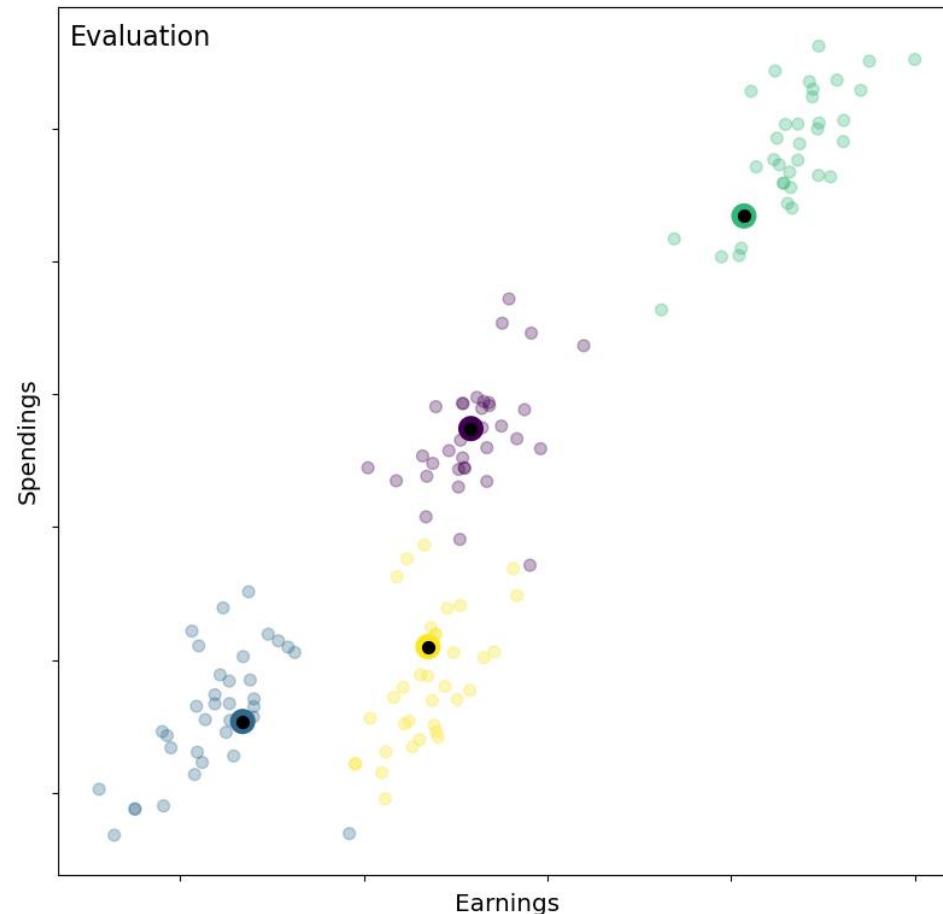
Unsupervised models

Find homogeneous clusters



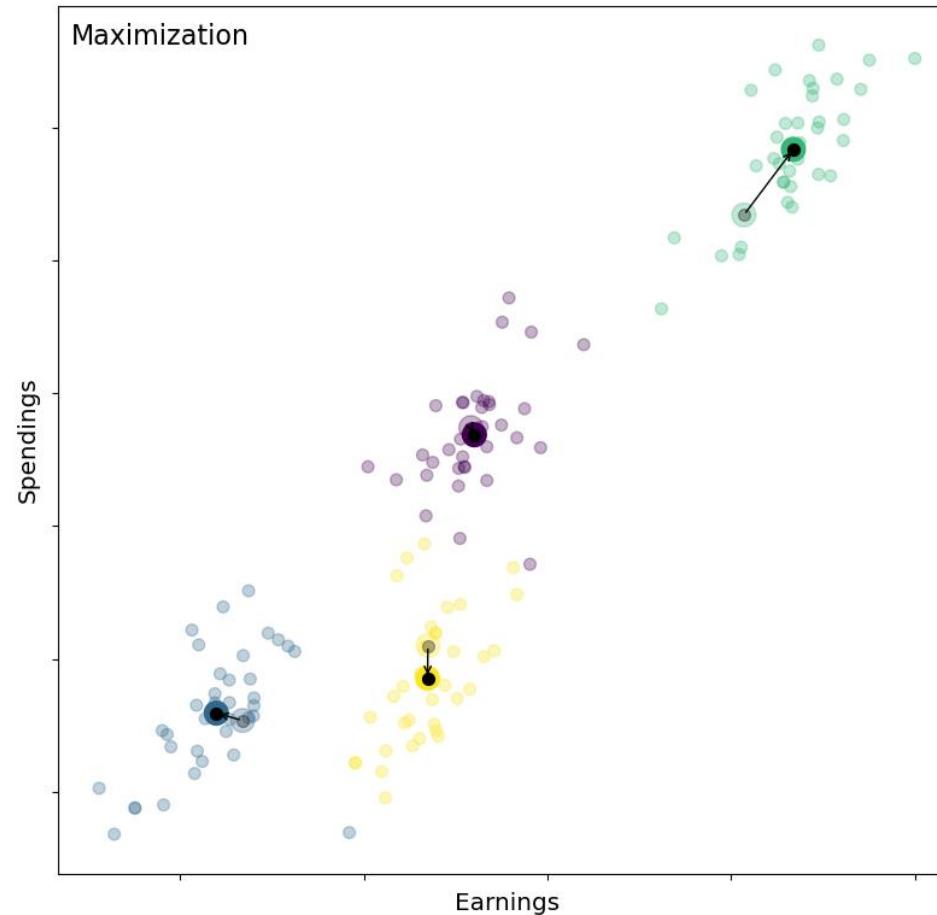
Unsupervised models

Find homogeneous clusters



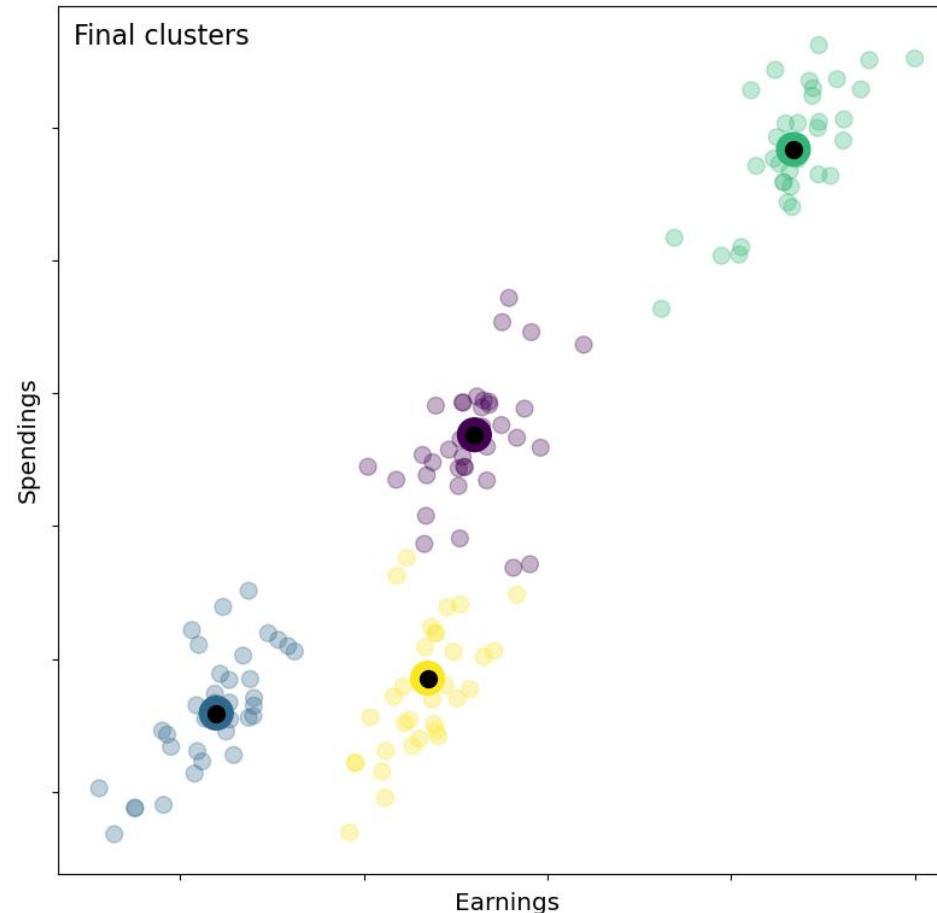
Unsupervised models

Find homogeneous clusters



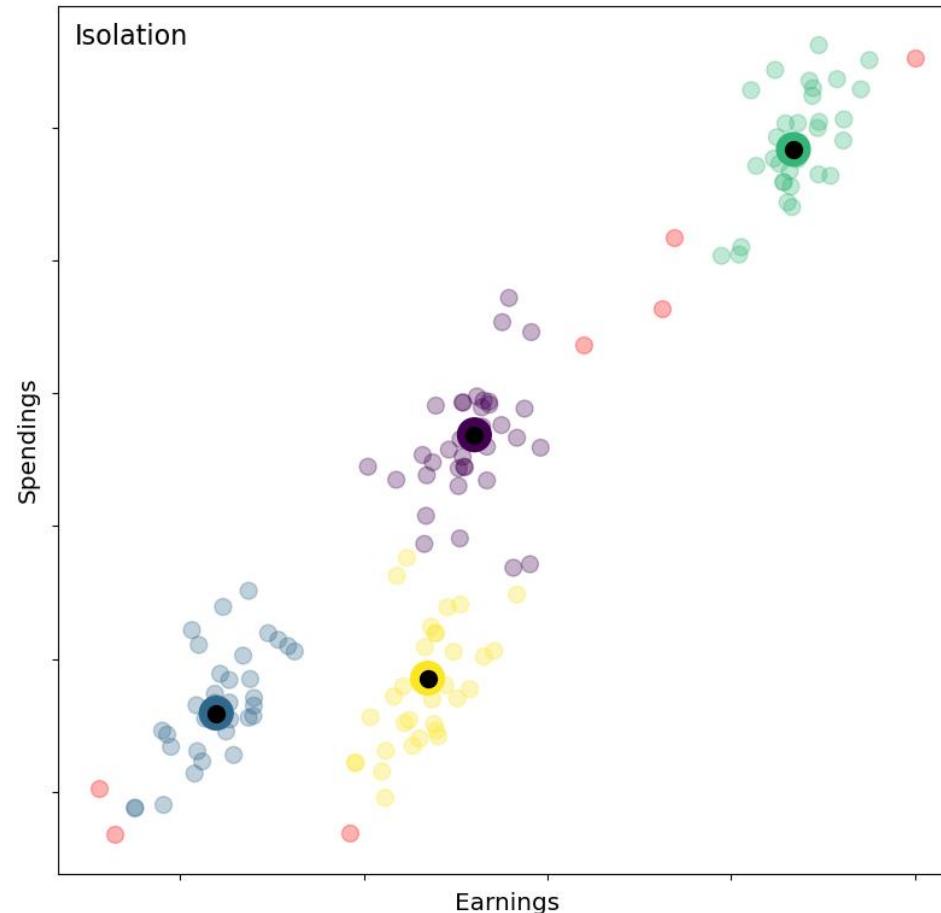
Unsupervised models

Find homogeneous clusters



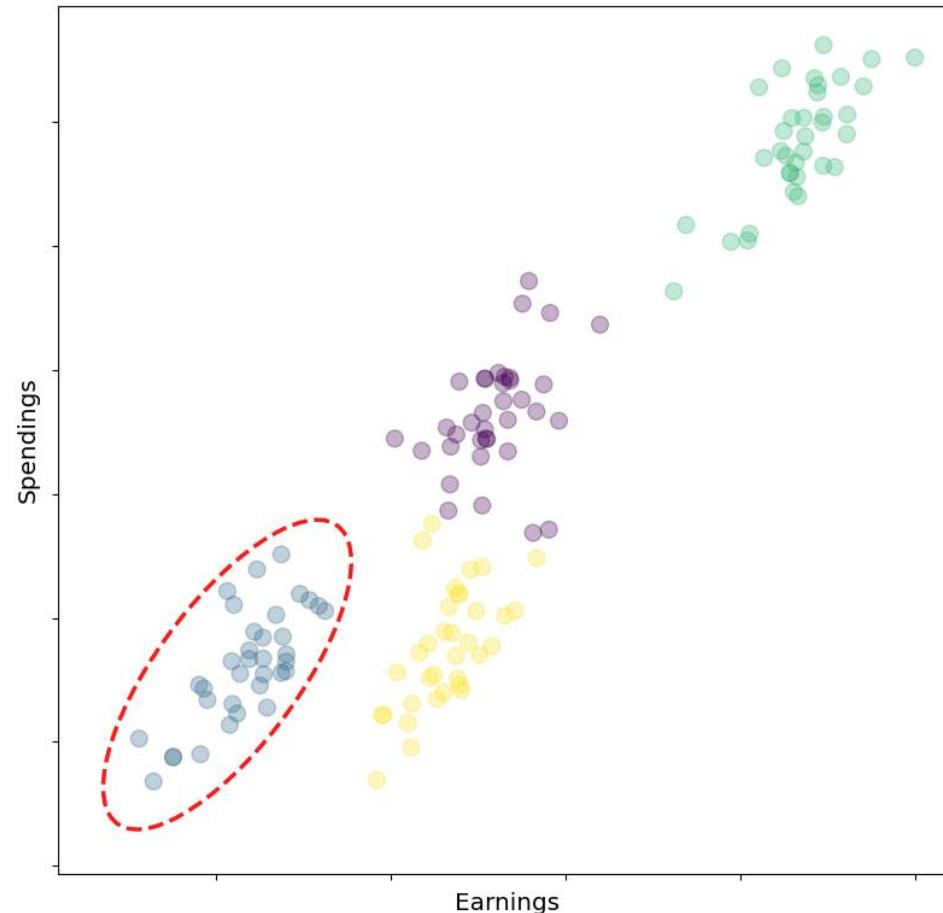
Unsupervised models

Find homogeneous clusters



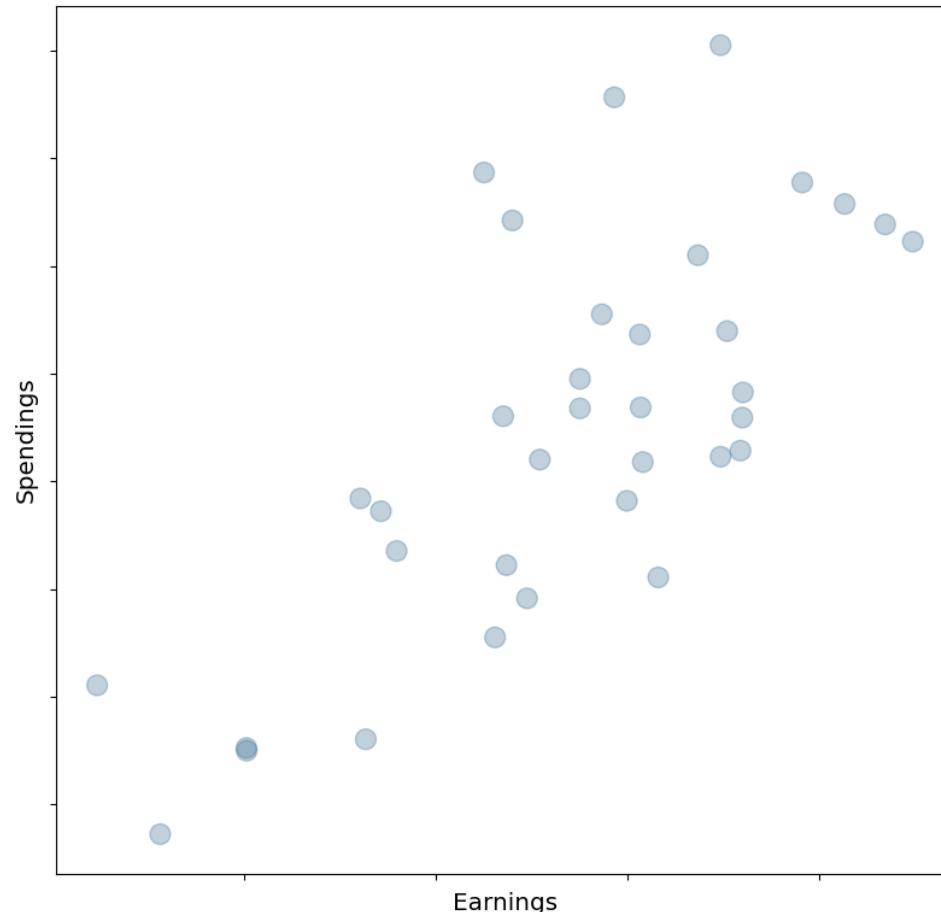
Unsupervised models

Find homogeneous clusters



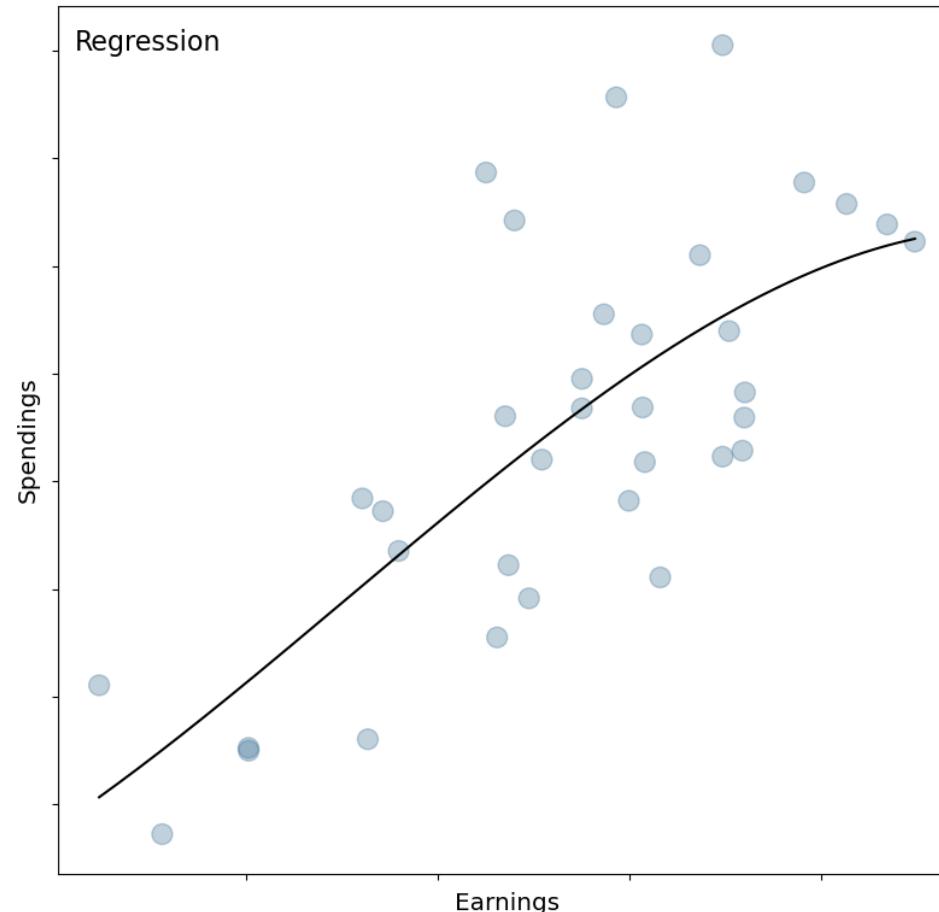
Supervised models

Learn to predict some known quantity, then compare to detect outliers



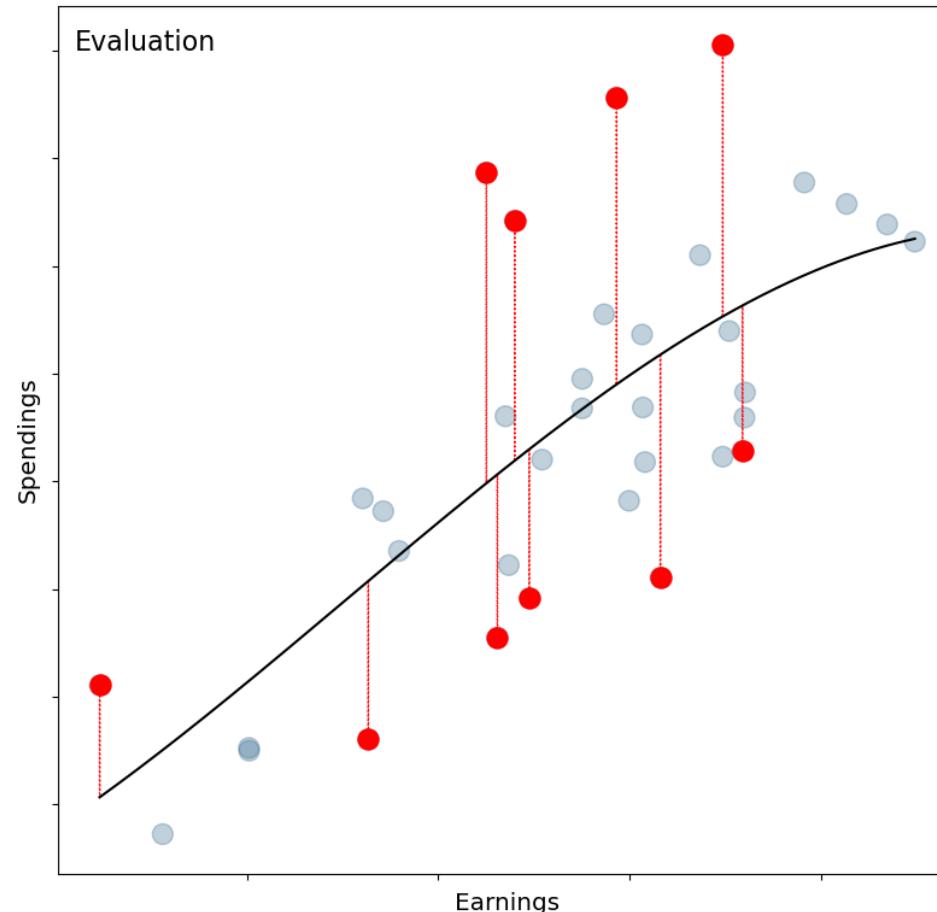
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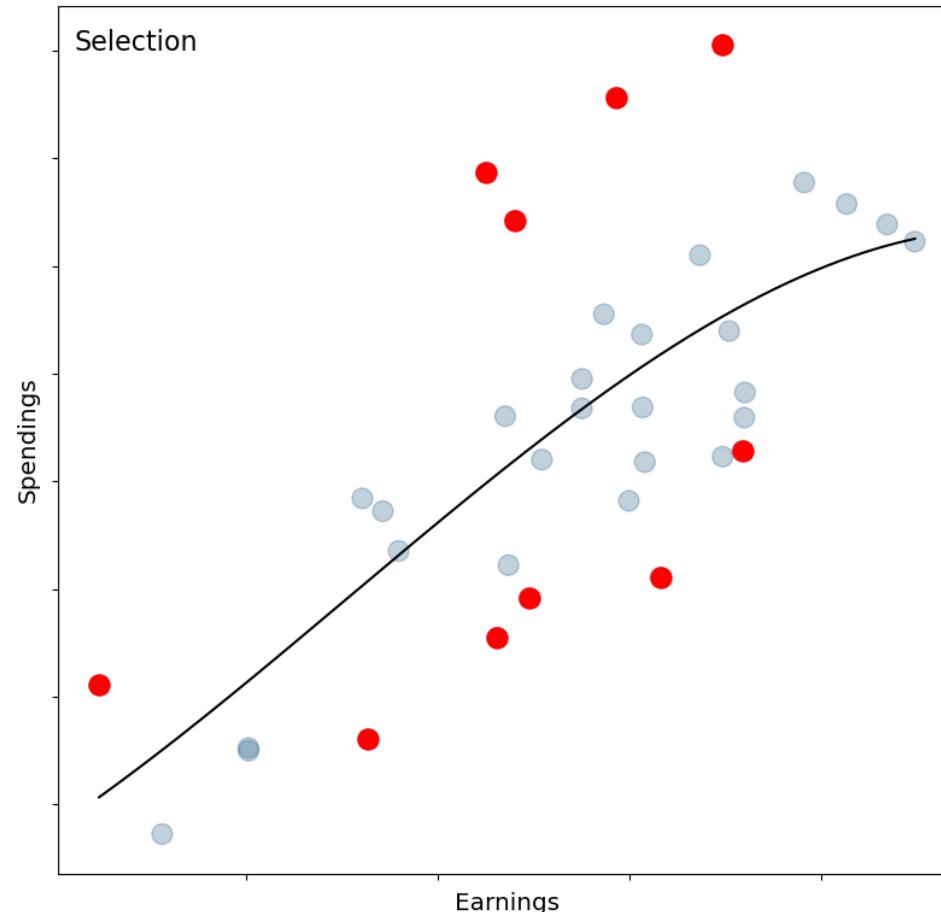
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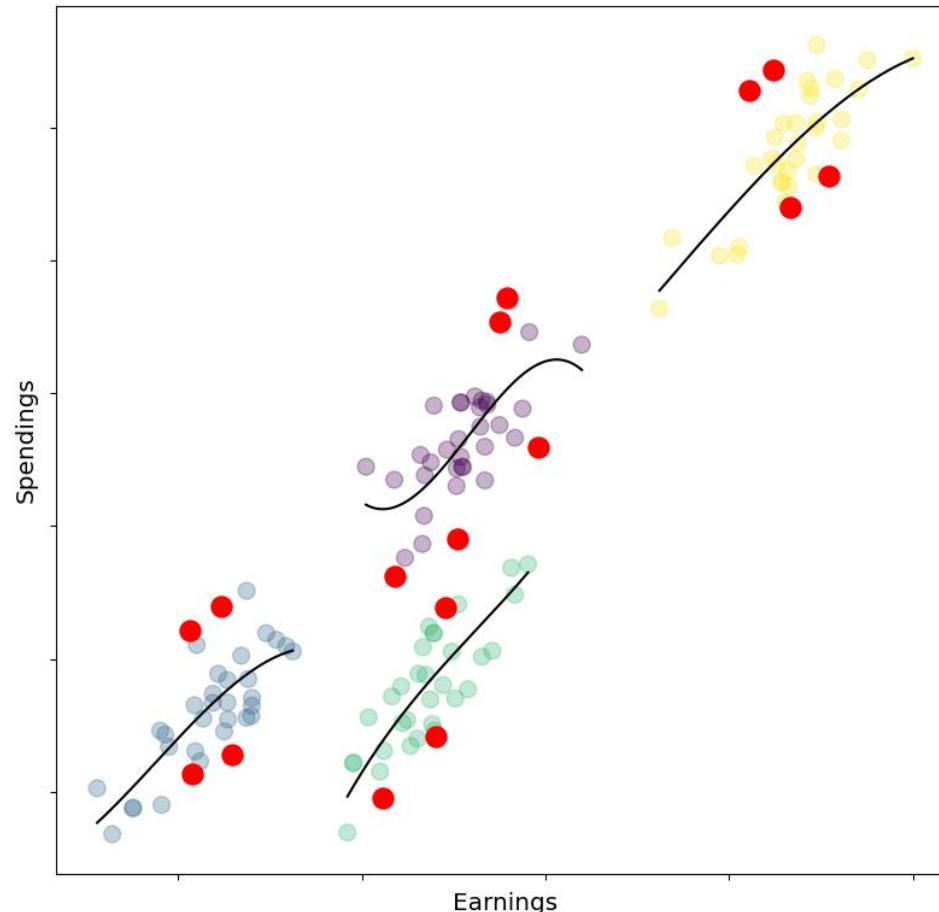
Supervised models

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Supervised models

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3

Performance & results

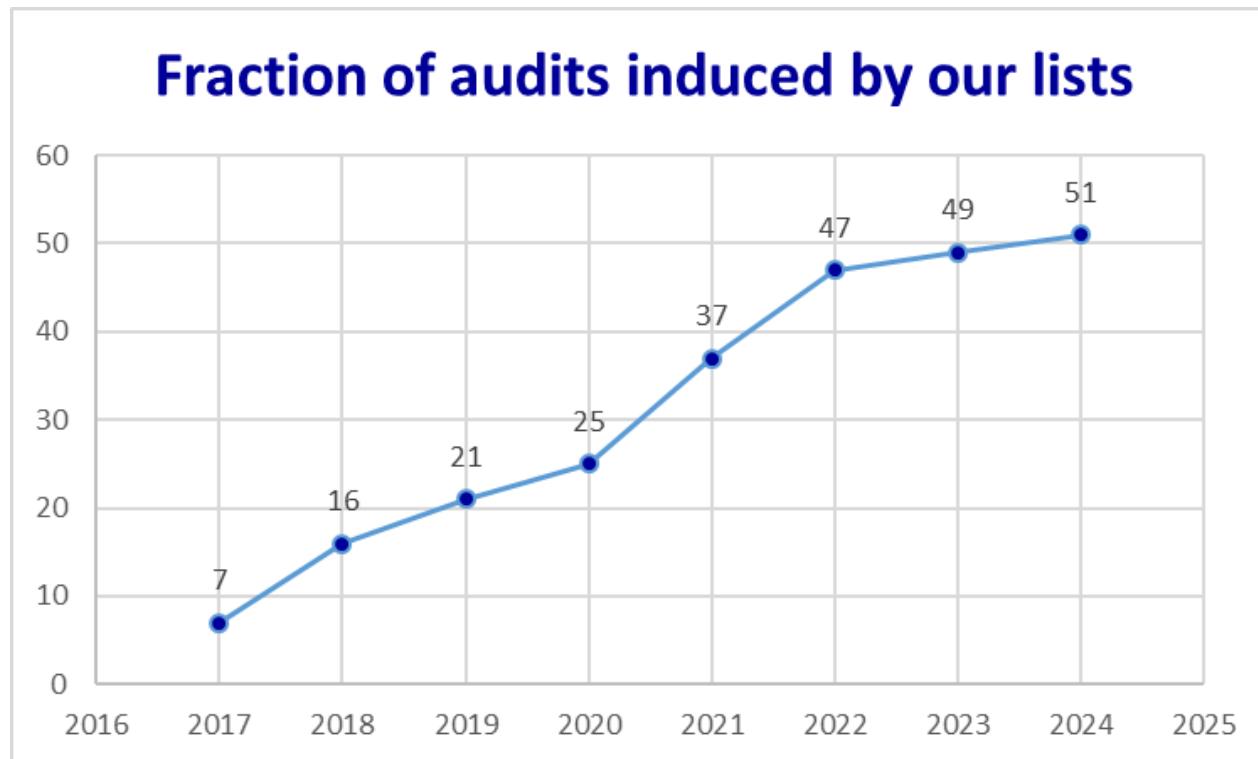
More than 2.5 €Bn detected in 2024

Including 1.6 €Bn from businesses



Our lists are used in more than 50% of tax audits

Other tax audits include research & events



Data analysis setup as of today

270

60

287,000

131,000

Topics covered for
businesses

Topics covered for
individuals

Cases sent
through our lists

Audits completed