

Modeller og maskinlæring

Revisjon, risiko og muligheter

NOKIOS 2023
Jan Roar Beckstrøm
chief data scientist, Riksrevisjonen

Velferdsstaten er under press

- Kunstig intelligens åpenbart en del av løsningen

- Antallet over 67 år vil øke fra 0,8 millioner i 2020 til 1,1 millioner i 2030 og 1,6 millioner i 2060. Andelen vil da øke fra 16 prosent til 26 prosent.
- Andelen i yrkesaktiv alder (20-66 år) vil avta. I 2060 blir det 2,3 yrkesaktive per person over 67 år. I dag er tallet 4,3.
- Antallet over 80 år vil mer enn dobles, fra 200 000 personer i 2020, til 400 000 i 2030 og 700 000 i 2060. Andelen av totalbefolkningen som er i denne aldersgruppen, vil da øke fra 4 prosent til 12 prosent.

Kilde: Folkehelseinstituttet

Dokument 3

Bruk av kunstig intelligens i staten

Riksrevisjonen undersøker hvordan myndighetene sikrer ansvarlig og pålitelig bruk av kunstig intelligens. Vi regner med å offentligjøre undersøkelsen våren 2024.

An audit of algorithms

Nine algorithms
used by the Dutch
government

2022



<https://english.rekenkamer.nl/publications/reports/2022/05/18/an-audit-of-9-algorithms-used-by-the-dutch-government>

POLITICO

Enter keyword

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FROM **POLITICO PRO**

Dutch scandal serves as a warning for Europe over risks of using algorithms

The Dutch tax authority ruined thousands of lives after using an algorithm to spot suspected benefits fraud – and critics say there is little stopping it from happening again.

<https://www.politico.eu/article/dutch-scandal-serves-as-a-warning-for-europe-over-risks-of-using-algorithms/>

Auditing machine learning algorithms

A white paper for public auditors

by the Supreme Audit Institutions of Finland, Germany, the Netherlands, Norway and the UK

27 april 2023

Abstract

This paper discusses audits of machine learning (ML) algorithms by Supreme Audit Institutions (SAIs). The paper aims to help SAIs and individual auditors to perform audits on ML algorithms that have been applied by government agencies. It is designed for auditors with some knowledge of quantitative methods. Expert level knowledge of ML-models is not assumed.

We include an audit catalogue - a set of guidelines including suggested audit topics based on risks, as well as methodology to perform audit tests. The paper is accompanied by an Excel helper tool that sums up and guides through different parts of the audit.

First version: 14.10.2020. auditingalgorithms.net is maintained by The Office of the Auditor General of Norway (Riksrevisjonen). For inquiries, please contact machinelearning@riksrevisjonen.no.

www.auditingalgorithms.net

Risiko...

- et enormt tema

Derfor:

Noen mer eller mindre tilfeldige eksempler som jeg håper dere ikke hører om andre steder på NOKIOS ☺

Pentagon's Replicator: 'Small, Smart, Cheap and Many' Autonomous Systems

In a race with China, DoD takes a page from Ukraine's use of drones to successfully counter Russia's traditional military advantage



Ben Wodecki
September 7, 2023

3 Min Read



<https://aibusness.com/responsible-ai/pentagon-s-replicator-small-smart-cheap-and-many-autonomous-systems>

AI in Practice
Training Programme



6-7 February 2024, London

Hvordan sørge for «Meaningful Human Control» med KI-baserte autonome drapsroboter?

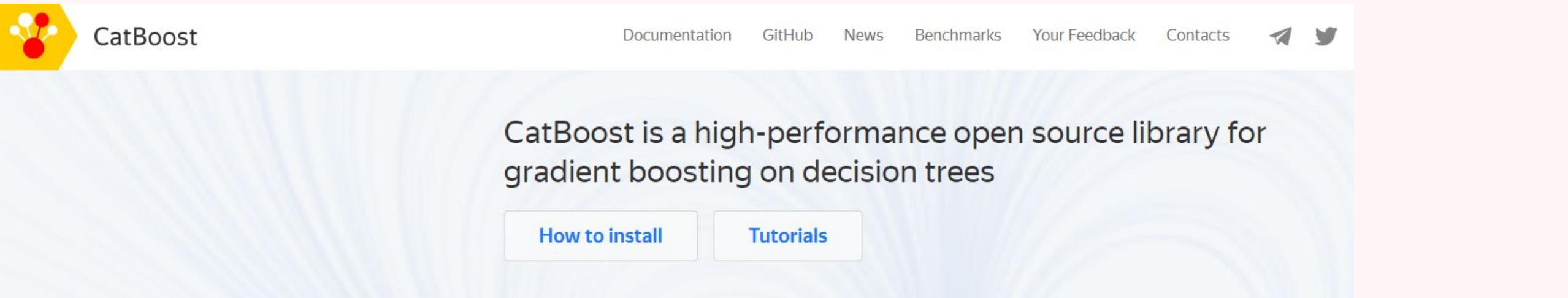
Forsvarsdepartementet

Strategi for kunstig intelligens for forsvarssektoren

Strategi

ML-algos: Hvor kommer de fra...

<https://catboost.ai/>



The screenshot shows the official website for CatBoost. At the top, there's a navigation bar with links to Documentation, GitHub, News, Benchmarks, Your Feedback, and Contacts. Social media icons for Telegram and Twitter are also present. The main content area features a yellow hexagonal logo on the left and a large heading: "CatBoost is a high-performance open source library for gradient boosting on decision trees". Below this are two buttons: "How to install" and "Tutorials".

Contacts

- Report an issue with CatBoost on [GitHub](#).
- Ask a question on [Stack Overflow](#) with the catboost tag, we monitor this for new questions.
- Join Telegram chat to discuss with real users in [English](#) or in [Russian](#).

Fra nasjonal trusselvurdering 2023:

- Russiske tjenester vil utgjøre den største trusselen
- Vedvarende etterretningstrussel fra Kina

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Forgiftning av data



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Categories: AI & Deep Learning, Cyber Security, Featured News

Tags: Devin Partida

Exclusive: What is data poisoning and why should we be concerned?

September 13, 2021 8:55 am

Data poisoning involves tampering with machine learning training data to produce undesirable outcomes. An attacker will infiltrate a machine learning database and insert incorrect or misleading information. As the algorithm learns from this corrupted data, it will draw unintended and even harmful conclusions.

«Fairness through unawareness»

(Også kjent som «prøve å fikse noe, og så blir det bare verre»)

Kjønn → Bias → Diskriminering

Fjern kjønn → problem solved

...not

Problemet er multicollinearitet

Typisk en rekke variabler som er korrelert med kjønn (og med hverandre)

Kjønnsdimensjonen er til stede i data, selv om du fjerner kjønnsvariabelen

Resultat: Du har bare rotet det mer til, og har enda mindre kontroll på bias

Active Fairness Instead of Unawareness

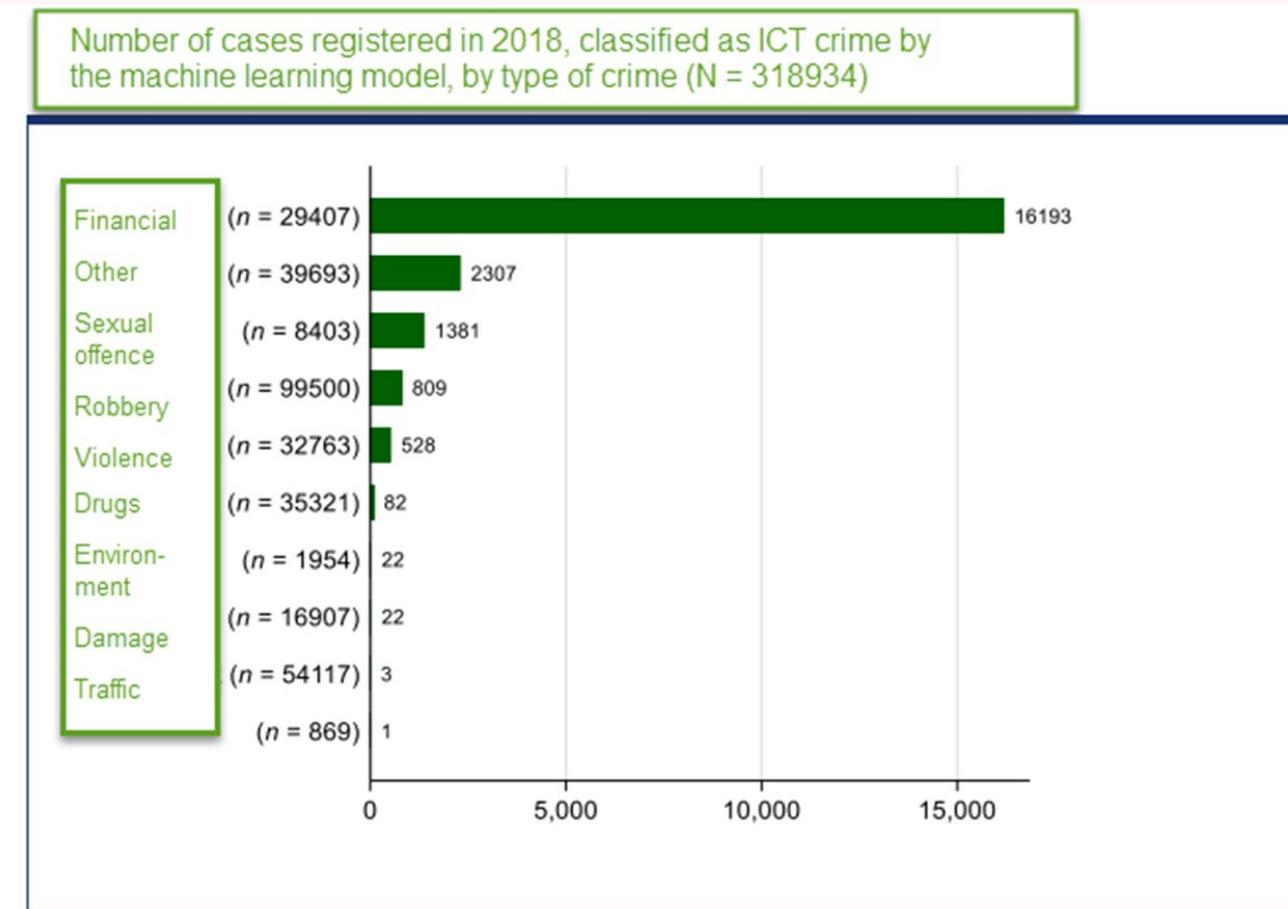
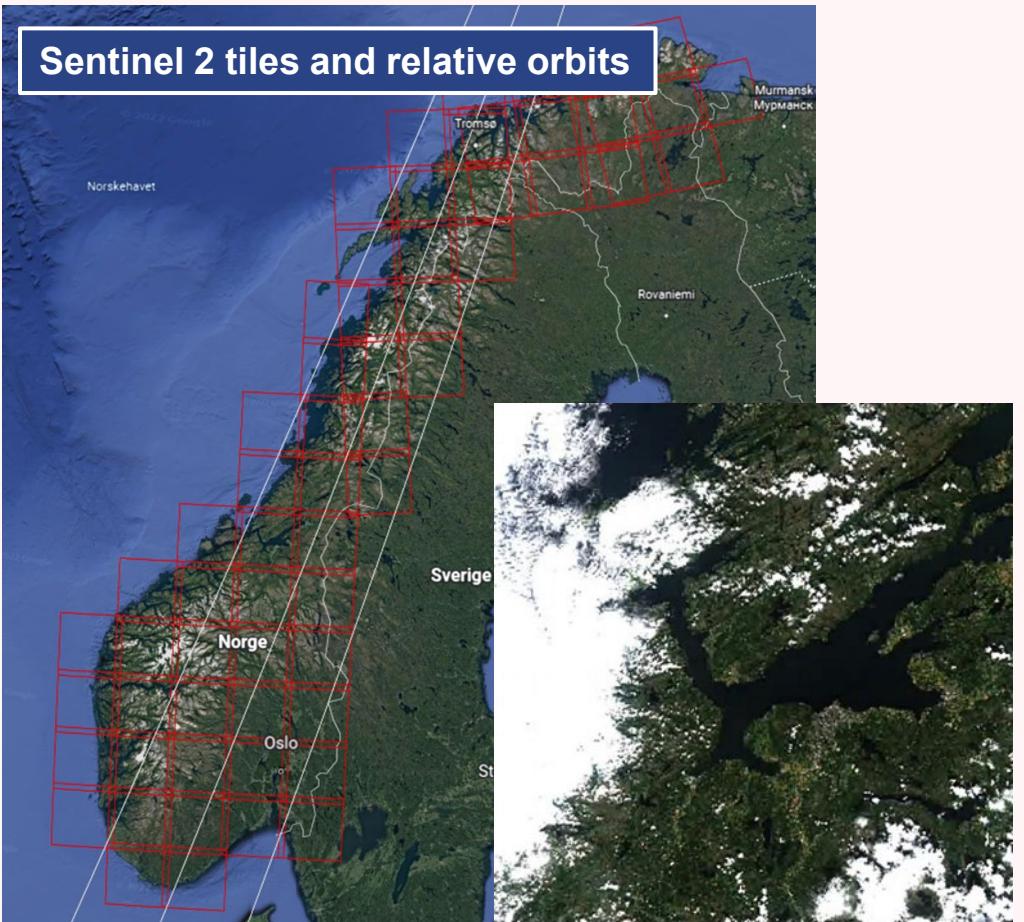
Boris Ruf and Marcin Detyniecki*

AXA Research, Paris, France

Bruk av ML i revisjonen

To eksempler:

1. Support Vector Machine for å kategorisere kriminalsaker - funket bra
2. Deep Learning på satellittbilder – funket ikke så bra



Og det var det!

Takk for oppmerksomheten!

Epost: jrb@riksrevisjonen.no