DSC presentation - UNECE ML webinar

17 Nov 2020

Poll results

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What are the key issues that limit organisations' ability to use machine learning? (1/2)



Access to suitable data Shortage of skilled staff 73 % IT infrastructure issues 36 % Stakeholder issues 25 % Strategic commitment

What are the key issues that limit organisations' ability to use machine learning? (2/2)



Other

11 %

Data: what are the key challenges to advancing machine learning within the organisation?



Experience

complexity

Commitment

Top management

methodological acceptance

Lack of data governance

infrastructure

Training

unbiased training data

collaboration resources Strategy skils Staff skills

data access

pre-processing the data large

implementation

reliable labeled data

Use-cases lack of

gold standard data

time SKIIS Awareness

Leadership

need more paradata

GDPR

money Trust

labeled data

Cultural Shift

current data

Python

disparate Data quality

statistical strategy multidisciplinarity

lust knowing what exists education integration in production

Standards in store&access

Don't have time to train

Skills: what are the key challenges to acquiring or developing machine learning skills?





IT infrastructure: what are the key IT challenges to undertaking machine learning?



Computing power for DNNs

access to good computer colaboration

access to virtual machine new algorithms AND secure

coding skill

multi-tenancy

Security

reactivity^{IT} skilled staff

time until it is available

access to software

Scalability

COST GPUS maintenance

Trust support to invest

Availability

support

computing power

software

Data Security

adaptability prioritization

Gpu unix

closed environment

coding best practices

long term

Data privacy

Enpremise HPC

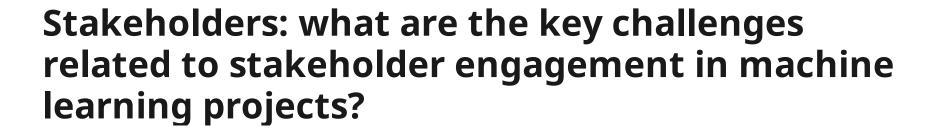
Knowledge

big data cluster

available kernels

Cloud computing

slido





coordination Unclear business needs confidentiality explainable ai Priority old fashioned activity managing ML skills faith they need evidence To boldly go... managing epectations Fear

willingness to experiment

Understanding Trust



Blackbox

ethics

commitment Focus on needs

Unknown ownership of added value Awareness interest Busy no understanding engagement Basic knowledge in ML application to statistics interpretability cooperation Resistance to change agreement



Strategy: what are the key challenges related to senior leadership to implementation of machine learning?



Relevance to business mod

Unknown

Awareness

communicate

legacy infrastructure

Clear communication

weak leaders

control of the process

set-up time

cooperation

Fear open mindexperience clear business case human resistence

CLARITY

understanding

explainability

alignment

Team vision

trust

support Time

implementation is slow

money

skill

Team work

PoC is quick

organisation strategic vision

Long term commitement

human component

ml skills knowledge

innovation vision Clear strategic

slido

What would you like to see explored further in the ML 2021 project?



Production implementation

explainable ai

network

Share

skills

social media

transfer learning

Neural

gps-data_{support} NLP Training

fire area

integration

shared tools Guidelines

sharing

shared services

new ML projects drones

ML maintenance

Data Governance

performance metrics non-probability samples concept drift multi-party computation