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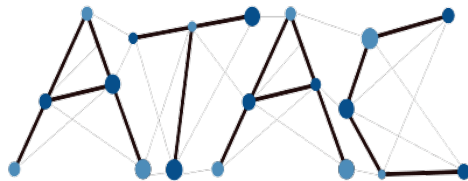
Machine Learning tools for IP office administration: Challenges and opportunities

WIPO Conversations on Intellectual Property and Frontier Technologies

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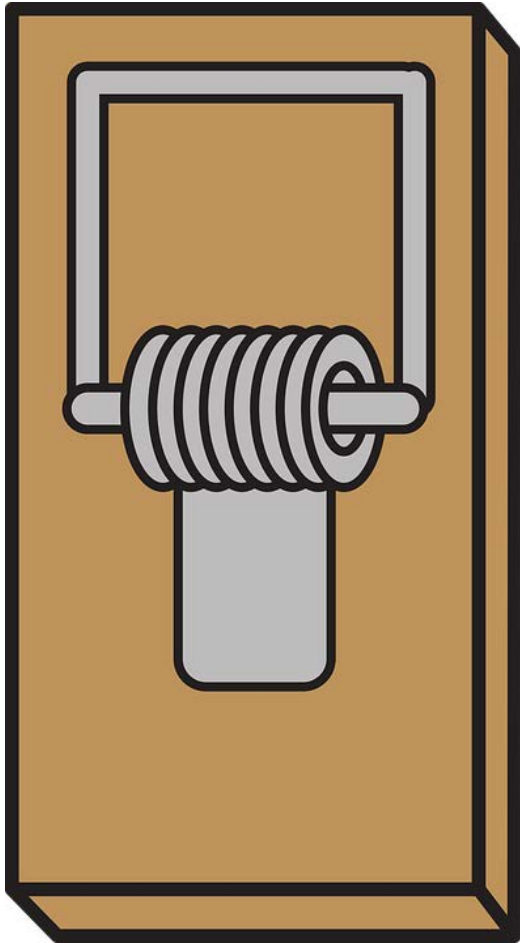
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Machine Learning tools: the pitfalls



1. The black box effect
2. Difficult quality assessment
3. Unrealistic marketing speeches
4. Rapid obsolescence



Machine Learning tools: some recommendations



- If you can, use a deterministic algorithm
- Measure quality & determine ROI
- Avoid «big bang» investment

Machine Learning tools: success factors

- A rich and high quality training set
- A matching business case with managed and well communicated expectations
- A controlled budget:
«Fail or succeed fast and cheaply»





Dilemmas

- Invest now or later?
- Build or buy ?

Dilemma: invest now or later?

	Cons	Pros
Wait	<ul style="list-style-type: none">Lose market sharesCorporate imageForever stall	<ul style="list-style-type: none">No riskPotentially do better or cheaper but later
Invest now	<ul style="list-style-type: none">Insufficient ROIChoose sub optimal solutionLocked in vendor contractHuman factor (fear of losing jobs)	<ul style="list-style-type: none">Implement new serviceRaise productivityGain market sharesCorporate image

Build or buy ?

	Challenges	Advantages
Build	<ul style="list-style-type: none">Training data inadequateLack of internal skillsLong to developIrrealistic expectations	<ul style="list-style-type: none">Tailored to your needsBetter qualityCan evolveScalesCompetitive advantage
Buy	<ul style="list-style-type: none">PriceMisleading marketing speechNot adapted to use caseDifficult to integrate	<ul style="list-style-type: none">Time to marketPrice

Third option: reuse other IP offices'



1. Experience and lessons learned
2. Quality assessments of existing tools
3. IP data to build better training sets
4. Internally developed tools



Thanks a lot for your attention!

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