

Complexity, complexity, complexity,

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Challenge IT world is getting dangerously complex

Physical and logical world collide every second at billions of places



Data environment is getting extremely complex, vulnerable and fragile. People can not handle the vast amount of data today - how we would like to govern an industries of the future?



Challenge

It is extremely difficult to make decisions in this complex world

- Hard, complex, tricky, easy, simple, ... no decisions at all (SOC)
- An integral part of ones life determine the direction of our future advancements (personal and professional cross-roads)



Decisions are the most trickiest parts of our lives and <u>it includes business</u> <u>How does one make a decision in such a complex world?</u>



Challenge

To understand vast amounts of generated data an AI is needed

- Data (statistics) & Information (meaning, QnA) & Knowledge
- Fact #1.: The amount of data generated has been growing rapidly through years (IoT,...)
- Fact #2.: Our capability to get an actionable insight out of this data does grow way slower (today = structured logs, un-structured data?)





From data to knowledge

Our capability to understand data grows way slower then the amounts of data generated. <u>There is a need for artificial intelligence to come to our aid.</u>



Challenge Statistics, automation, compliance

Efficiency of cyber-adversaries is growing and there is not enough cyber-security experts. Al based cyber-attacks are imminent.





Security expert shortage in 2020 (Source: IBM X-Force report)

(*) https://techcrunch.com/2016/05/23/can-startups-disrupt-the-20-billion-cyber-insurance-market/



Machine learning powered bigdata security analytics

Chain of command Evolved AI for the future

Understand the behaviour of each significant asset within the corporation IT environment, point on events worth attention and provide <u>decision support for c-level staff</u>





Threshold tuning Trade-off impact optimisation

5 FTEs to tune deterministic thresholds on average







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