12 th May 2020, 3.30pm SG/HK Time

AUTOMATIZING COMPLIANCE

DIGITISING THE RETURN TO HEALTH FOR TRADE

"One step before the Blockchain" :Arnaud Doly – Verifeasy will talk about the solutoin his company has conceived in order to exploit on AI and NLP with the goal to fully automatize compliance in the compliance checkingunder documentary credits.

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Housekeeping before the presentation, panel & discussion

1) The Linux Foundation antitrust policy
2) What is a Hyperledger SIG?
3) Who are the chairs of the TF SIG?
4) Any new members and how to get involved

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The Linux Foundation antitrust policy

Linux Foundation meetings involve participation by industry competitors, and it is the intention of the Linux Foundation to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, and be aware of, and not participate in, any activities that are prohibited under applicable US state, federal or foreign antitrust and competition laws.Examples of types of actions that are prohibited at Linux Foundation meetings and in connection with Linux Foundation activities are described in the Linux Foundation Antitrust Policy available at ttp://www.linuxfoundation.org/antitrust-policy. If you have questions about these matters, please contact your company counsel, or if you are a member of the Linux Foundation, feel free to contact Andrew Updegrove of the firm of Gesmer Updegrove LLP, which provides legal counsel to the Linux Foundation.

Hyperledger is committed to creating a safe and welcoming community for all. For more information please visit our Hyperledger Code of Conduct.

Special Interest Groups gather the community that works on a domain specific problem and aims to create an environment for open discussion, document co-creation and solution proposals. Technical Working Groups focus on technical aspects of blockchain and Hyperledger. TWG gathers community of various environments to work on global, technical solutions. SIG cuts through a vertical trying to address problems specific to that particular community.

Meet the Hyperledger *Trade Finance* SIG Chairs

Chair:
Andrea **Frosinini**

Independant Trade Finance Consultant

Senior Trade Finance professional with a passion for innovation. Recently, I joined the Hyperledger community with the goal to offer my contribution in order to modernize the industry and develop new products by exploiting blockchain and DLTs.

Vice-Chair:
Atul Patel

Co- founder at Dltledgers

Atul Patel is associated with HLP 2017, has co-founded the largest t finance digitisation dltledgers platform HLP and is one of the most passic supporter of HLP and key tenets are how Linux Foundation is operating HLP. I would be looking at strengthe and revitalising the TF community to forward with innovation that's happe around the world blending core rese with itrade finance use cases.

New members & how to get involved

How to get connected and involved:

1. **Visit the Wiki and join the mailing list**
    https://wiki.hyperledger.org/display/TFSIG/Trade+Finance+SIG
1. **Put your name on the Member Directory on the Wiki**
    https://wiki.hyperledger.org/display/TFSIG/Membership+Directory
1. **Get on Rocket Chat** https://chat.hyperledger.org/channel/trade-finance-sig
2. **Attend Meetings, reach out, <u>everyone is welcome!</u>**

Any new members please introduce yourself :) All volunteers

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Linux Foundation ID (LFID)

Linux Foundation ID (LFID) is a free account that identifies you and securely provides access to web sites of The Linux Foundation, our projects, and our service providers.

In order to participate in the Hyperledger Chat rooms (powered by Rocket chat) or edit the Hyperledger Wiki (powered by Confluence), all community members need to have a LFID. See instructions and video on How to Setup a LFID.
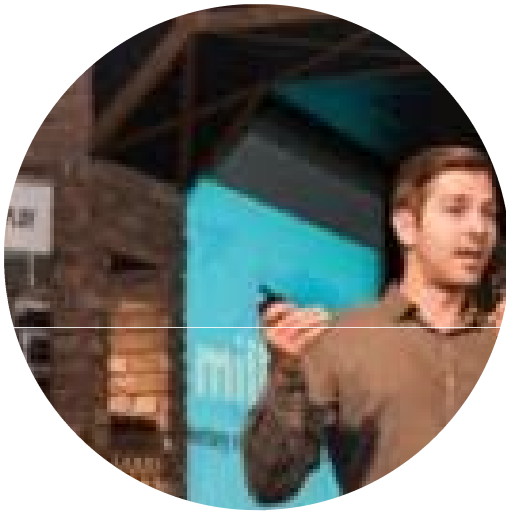
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How AI is going to simplify trade finance operations

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# The challenges of artificial intelligence

Helping humans to **take decisions quicker** based on the AI work.

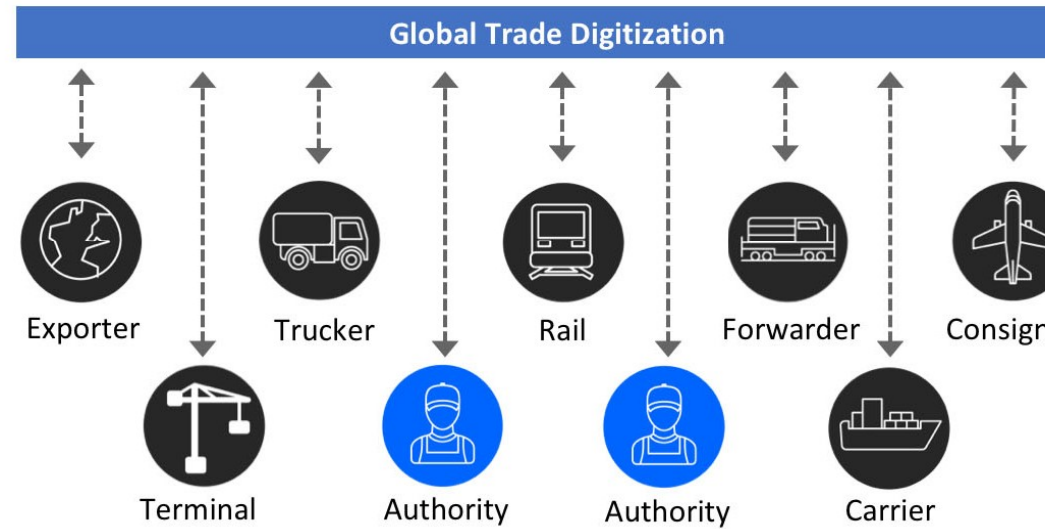**Speeding up** operations by removing time-consuming manual processes.

Mitigating risks associated with knowledge-based tasks.

Optimising automation of complex processes.

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Documents and data journey

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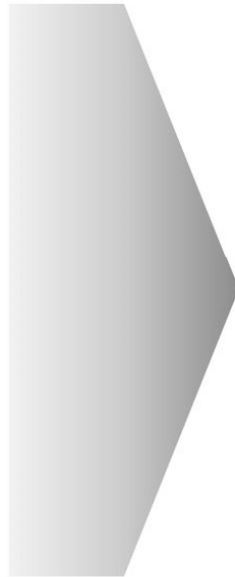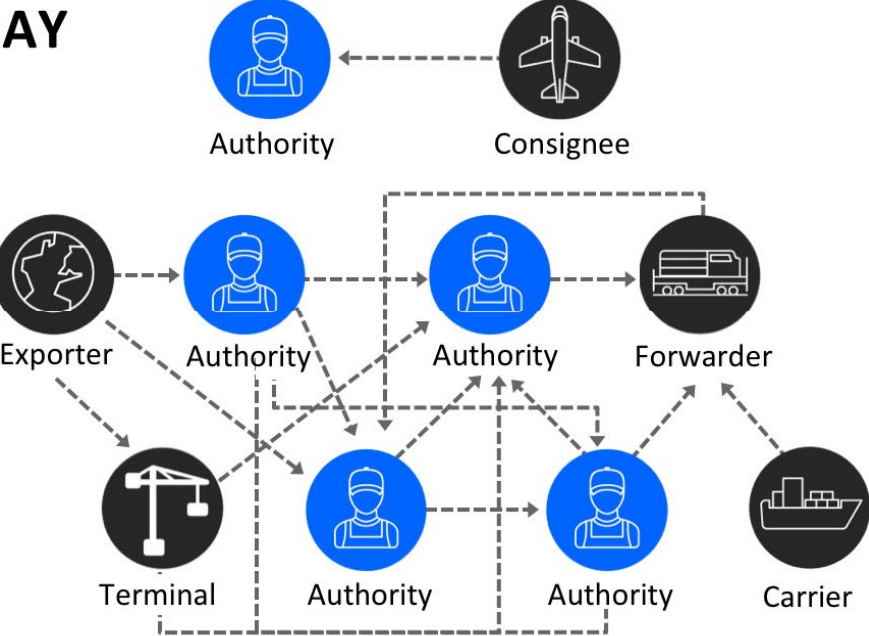
Underlying technologies

Computer Vision: extracting semantic information from a picture.

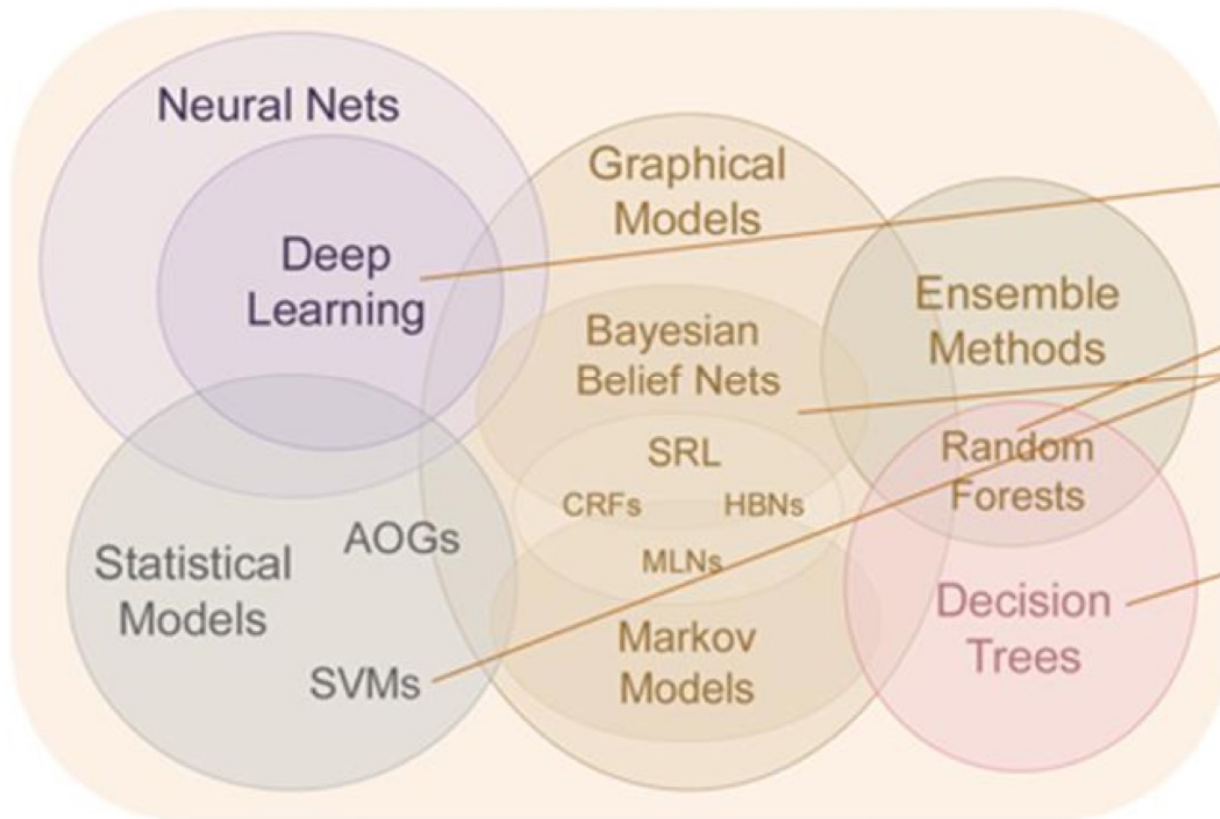..

Natural Language Processing/Understanding: training computers to read and understand relevant text.

....

Machine learning: the computer learns without being explicitly programmed.

....

Data analysis: analysing the extracted data against sets of rules.

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Learning Techniques (today)

Neural Nets
Deep Learning

Graphical Models
Bayesian Belief Nets
SRL
CRFs   HBNs
MLNs

Ensemble Methods

Random Forests

Statistical Models   AOGs
SVMs

Markov Models

Decision Trees

Explainability (notional)

Prediction Accuracy

Explainability

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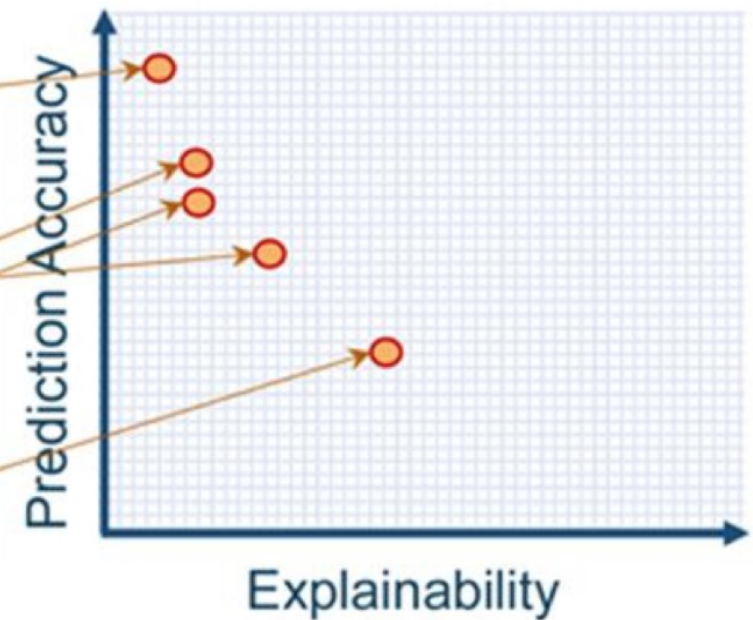
Implementing AI to drive smart decisions

Deterministic		Intelligent		Cognitive
User Assist: macros, scripts, Robotic Desktop Automation	End-to-end Process: UI Automation, Document Processing (OCR), Robotic Process Automation	Image recognition, document type recognition, hand writing recognition (ICR)	Predictive analytics, algorithms, pattern recognition	Expert system, Machine Learning, Neural Networks, Smart Process Automation

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	Simple, repetitive tasks		Complexity	Complex, multi-system
	Task Robot	**Meta Robot**	**IQ Robot**	**AI Robot**
ription	- Replicate complex process actions. - Perform actions taken by humans at presentation layer of any desktop-based application - Capable of executing multi-steps processes	- Leverage API-level integration to create system-to-system automations - Share automation with task bot - When combined with task bots, meta bots are ideal for multi-skill processes	- Learn and adapt over time - Become independant but with fewer errors - Leverage unstructured data - Capable of making decisions based on accumulated learning and experience	- Combines smart data and smart algorithms - Decision making based on machine learning and synthesis of large datasets
for	**Repetitive, rule-based tasks** relying on **structured data**	**Complex, scalable processes**	**Managing through fuzzy rules** and processing **unstructued data**	**Language interaction** processing and dealing with **high amount of unstructured data**

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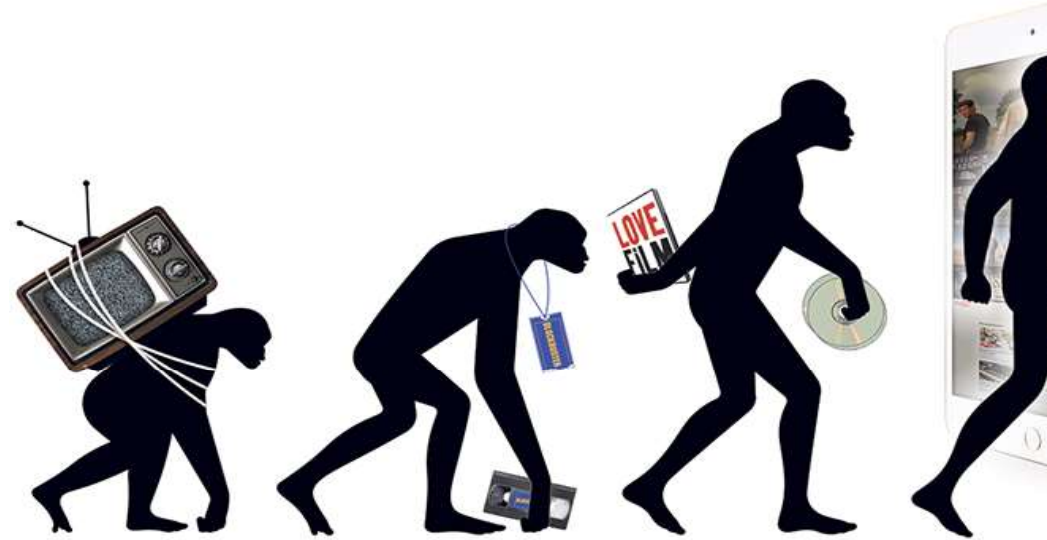
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Input

- Checks the document when issued to allow for immediate correction in case of discrepancy.

- Checks the data when inputted on a digital platform to allow for immediate correction in case of discrepancy.

Output

- Checks the document when received to allow for immediate decision based on the results.

- Checks the data when consulted on a digital platform to allow for immediate decision based on the results.

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Initiatives and resources out there today

➤ Please the Wiki

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Please ask questions, voice opinions, suggest ideas!

> ➤ What can we as a SIG to help address/document this?

Thank you!

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