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BIG DATA ANALYSIS: BUSINESS PROCESS MINING

SUMMARY OF SUMMARY

The thematic of the documents of Axel, Sabaye, Maëlle and Sara is the adoption of artificiall intelligence (**AI**) technology in process mining, how it will facilitate the change to redesign and improve business processes based on the analysis of tremendous data.

AI-Powered Process Mining is a powerful combination of **AI**(Artficial Intelligence), **RPA**(Robotic Process Automaton), and deep learning capabilities that allows you to question the whole world around how **AI** is able to change the game for managers in the way they manage and optimize business processes, aiming at enabling higher operational efficiency and better strategic decision-making.

Axel, Maëlle, Sabaye and Sara document demonstrates how process mining, when combined with AI, identifies the problematic area calling for the optimization solution, which ultimately may contribute to an increase in buisnnes performance due to continuous improvement. They focus on extracting knowledge from existing data, analysing it correctly and proactively improving it.

Technologies such as AI present a challenge to an organisation that requires a technology infrastructure and an organisational culture, both are data driven, as well as the right regulatory framework to overcome this challenge. They go on to stress that the success of the digital transformation for both companies will have to ensue from the closest collaboration of its AI expert and the process analysts with the business decision-makers, who, on the other side, need guidance that is particular and toward this.

These documents focuses on the advances and new possibilities offered by the use of process mining at the intersection of AI and business processes. Also it show to us that technological development is likely to be a determining factor in other possibilities for optimising business processes, detecting anomalies and even predicting future behaviour. Also, we've found that using AI to analyse and improve the way businesses work can really change things for the better. Sabaye work adds an important piece to this puzzle, showing us how Process Mining (**PM**) uses data from past activities to make things more efficient. This process uses intelligent computer programs, such as **RNN** (Recurrent Neural Network), **LSTM** (Long Short Term Memory) and **BLSTM** (Bidirectional Short Term Memories), to help companies learn from the past and make better decisions for the future. Sabaye also talks about the need to use data responsibly, ensuring that it is fair and private. Putting all our findings together, we see that AI and process mining are key tools for improving business processes, highlighting the importance of good data use and the right configuration and teamwork to get the most out of these technologies.

It means to say that what makes the three documents the same is the way they express that AI and process mining can be revolutionary in business processes. The benefits, the challenges, and the brilliant scope for the future of big data analytic technologies and advancements were presented.