**LEVEL 0 SUMMARY TEMPLATE**

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* **Paper title:** APPLICATION\_OF\_AI\_ML\_NLP\_TECHNOLOGY\_INTO
* **Source (e.g. scholars.google.com):** https://scholar.google.com/
* **Keywords specific to the paper:** Business process models modeling and AI
* **Summary of the main contributions (use text paragraphs, tables and if necessary, figures):**

This paper describes significant potential of digital transformation to improve business process management and modeling through new technologies such as artificial intelligence (AI), machine learning (ML) and natural language processing (NLP). We can say that effective process modeling in an increasingly digital world is of increased importance for companies that want to achieve competitive advantages. Business process modeling can be improved using these new technologies.

It begins with an overview of business process modeling as a graphical representation of a company's workflows to aid analysis, design, and control. Digital transformation through Industry 4.0 technologies like the internet of things is prompting greater use of automated techniques in business process modeling.The next section reviews relevant literature on applications of AI, ML, and NLP and their impacts.

AI aims to pattern human processes using algorithms to solve problems and recommend actions. ML enables machines to derive insights from experiences without explicit programming. And for NLP, to be simple it allows the system to better understand human language thanks to tasks. On the other hand, benefits like business growth, risk identification, strategic decision making, and improved market positioning are shown by ML. Finally, answering customer questions and analyzing sentiments are made easier by NLP.

When combined, AI ML NLP systems can perform human-like tasks and evolve based on experiences.Implementation of these technologies in business operations and processes brings numerous efficiencies. AI supports day-to-day activities and decision-making with faster, more accurate complex data processing. ML finds patterns in data to surface opportunities and risks. NLP powers natural conversations and analysis to enhance marketing and customer satisfaction. This allows us to free up human resources for more demanding work via these methods of automating repetitive tasks.

Effective evaluation of business process modeling is also examined. Key factors include capturing activities to achieve goals, value-adding actions, and waste reduction. Modeling establishes workflow frameworks and aims to optimize process linkages and resource usage. Flexibility, quality, throughput and monitoring are the control centers of measurements.

Digital tools and data-driven insights from AI ML NLP can strengthen evaluation.In summary, the review finds AI ML NLP technologies play an important role in business process modeling by automating tasks, generating insights, and powering more agile, data-driven process redesign and management.

When combined with effective evaluation frameworks, these methods offer powerful means to drive ongoing process improvements and competitive advantages. Further research on applications across diverse industry settings would deepen understanding of their growing strategic impacts.

* **AI model used (e.g. Neural network, etc.) :**

The AI Model used is : ML model

* **Introduce the AI models :**

Machine learning (ML) is a branch of artificial intelligence (AI) that involves mathematical techniques enabling machines to generate knowledge from experiments. It describes the development of algorithms based on empirical and training data, focusing on optimizing results and improving predictions through learning processes.

* **How do they contribute to the idea proposed by the paper?**

The article highlights the effectiveness of ML in solving complex problems without explicit programming and its applications in various fields, including wireless communication, networking and decision-making processes.

* **Supported by a software application? (If yes, provide more details) :**

No, this article is not supported by a software application