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# BULETIN

*FAKULTI PERAKAUNAN  
UiTM CAWANGAN NEGERI SEMBILAN  
KAMPUS SEREMBAN  
EDISI 9 2025*



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## Revolutionizing Accounting with Artificial Intelligence

*Musliha Musman, Salwa Muda, & Raziah Bi Mohamed Sadique*

Artificial intelligence (AI) is an evolving technology with the potential to transform numerous industries and professions, including accounting. AI is a discipline of computer science that focuses on creating systems capable of executing activities that would normally need human intelligence (Boden, 2016). These tasks include learning, thinking, problem solving, language comprehension, and pattern recognition (Goertzel, 2021). AI systems change and grow over time, becoming more efficient at handling complicated tasks. This advanced technology is expected to compel accountants and other stakeholders in the accounting profession to realize AI's disruptive impact, resulting in a variety of diverse and complex implications for the future of the accounting profession (Anomah et al., 2024).

AI significantly reduces the reliance on manual labor in accounting by automating time-consuming and repetitive tasks. Traditional accounting processes, such as data entry, ledger maintenance, and report generation, often involve manual effort, leading to inefficiencies and errors. AI-powered tools improve accuracy by minimizing human involvement in tasks like extracting, validating, and recording financial data. Furthermore, Optical Character Recognition (OCR) technology enables the quick and efficient scanning and processing of invoices and receipts, while AI seamlessly reconciles transactions across bank statements and ledgers. Payroll management, including calculations, tax deductions, and compliance checks, is also automated, saving time and ensuring precision. These advancements not only reduce errors and enhance operational efficiency but also allow accountants to focus on higher-value, strategic responsibilities. Furthermore, AI has had a profound impact on professional roles, offering scalability, reducing costs, and allowing greater attention to be directed toward strategic tasks (Hussin et al., 2024).



AI has completely changed financial reporting by enabling the real-time processing of enormous volumes of financial data, significantly improving the speed and accuracy of reporting processes. With AI-powered systems, financial statements and management reports can be generated almost instantly, ensuring that businesses have quick access to critical financial information. Instead of waiting for sporadic updates, this feature enables organizations to continuously monitor their financial performance. Furthermore, AI enhances accessibility to recent information, allowing stakeholders to make well-informed, timely decisions. Real-time data improves transparency and agility, allowing companies to respond quickly to market changes or new possibilities. For example, companies can analyze current revenue streams or expense trends and adjust strategies accordingly, leading to improved operational efficiency and financial outcomes (Smith, 2020).



AI plays a pivotal role in helping organizations enhance internal controls, adhere to regulations, and protect the integrity of their financial processes (Doe, 2022). By streamlining fraud detection and risk management operations, AI improves security and minimizes financial risks. Through advanced algorithms, AI systems analyze patterns in financial transactions to identify anomalies or suspicious activities that may indicate fraudulent behavior. This proactive approach enables organizations to detect and resolve possible fraud in real time, considerably lowering the risk of financial loss. Furthermore, AI facilitates complete risk assessment by examining multiple aspects of financial operations to identify possible risks. By analyzing past data and current trends, AI can forecast weaknesses and offer risk-mitigation solutions.

Overall, AI has revolutionized financial processes within the accounting industry. By automating repetitive tasks such as data entry, invoice processing, and payroll management, AI significantly reduces manual labor, enhances accuracy, and improves operational efficiency. Its ability to process large volumes of financial data in real time enables instant report generation and delivers up-to-date insights, supporting faster and more informed decision-making.



Moreover, AI enhances fraud detection and risk management by identifying anomalies, assessing potential risks, and providing practical solutions to safeguard financial integrity. Beyond operational advantages, AI enables accountants to focus on strategic, higher-value duties such as financial planning, advising services, and long-term decision-making, so improving their positions within organizations. It also promotes scalability and cost-effectiveness, making it easier for organizations to respond to changing financial situations and complex regulatory requirements. As AI evolves, its integration into accounting procedures will drive even more innovation, ensuring the profession's agility, efficiency, and future readiness.

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