AI-Powered Data Analytics: A Game Changer

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Abstract: *The discipline of data analytics continues to evolve highly because AI technology has been incorporated into its framework. This paper examines how AI-powered data analytics brings new opportunities to different industries by discovering meaningful findings, improving decision systems, and fostering innovations. The research synthesis with practical applications examines AI algorithms that boost data analysis capabilities by explaining their processing methods and the benefits and drawbacks of this technological combination. Cloud computing integrated with artificial intelligence delivers a practical approach that helps organizations extract useful information from big datasets. AI-driven analytics will be shaped by three principal trends, which include explainable AI requirements and edge analytics growth, as well as the interruption of AI technologies with transformative innovations. Organizations obtain better decision-making and strategic benefits through the revolutionary application of artificial intelligence for extracting data insights from complex and extensive data collections.*

Keywords: AI technology