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Reading: Introduction to AI in Advanced Data Analytics

In the data-driven world of today, extracting valuable insights and making informed decisions requires leveraging the latest technology. AI tools are transforming the way data analysts work, offering powerful capabilities to analyze vast datasets, uncover hidden patterns, and communicate findings effectively.

Artificial intelligence (AI) refers to computer systems that can perform cognitive tasks typically associated with human intelligence. You can use AI tools to augment and automate various data analysis tasks, such as data cleaning and preparation, exploratory data analysis, and generating visualizations and reports. AI can also help you with writing code, and if the code you wrote isn't working, it can even help troubleshoot by identifying syntax and logical errors.

In this lesson, you'll discover how you can integrate AI into your daily data analysis activities. We'll explore how AI is already being used by data analysts to automate routine tasks, enhance productivity, and uncover deeper insights from data.

Throughout this lesson, you will:

- Learn foundational concepts of AI.
- Discover AI tools used in the data analysis field.
- Review examples of how AI is used in the day-to-day work of data analysts.
- Gain hands-on practice in using AI to streamline your data analysis tasks.

As you embark on your career as a data analyst, this lesson will equip you with the basic information you need to experiment with AI tools, identify opportunities for leveraging AI in your data analysis workflow, and stay at the forefront of industry advancements.

AI tools for data analysts

AI tools are continuously evolving and being developed for many industries, including data analytics. While building a career in this industry, you can explore the available AI tools that can assist with your role. One tool that's currently used in data analytics is **Tableau AI**. Tableau AI aims to simplify the process of data analysis. This tool has the potential to help data analysts prepare data, reduce repetitive tasks, and suggest appropriate visualizations.

This is just one example of an AI tool you might use as a data analyst. Throughout this lesson, you'll learn more ways to use AI tools to enhance your work.