Critical Skills: Essentials of Data Science and AI for Non-Data Scientists

This talk is an interactive and unintimidating exploration of the key points audiences need to learn about AI and data science. We'll take a practical, step by step walk through procedures that can be used to explore data, identify opportunities to use AI, and best methods of building predictive algorithms. We will specifically identify analytical tools and statistical methods that are appropriate for a variety of needs and take a live hands-on tour of a statistical program, run analytical procedures and analyze the output, giving ample time for questions and interaction. We will review machine learning, data mining, natural language processing, and a brain computer interface. This is a perfect session for those wanting to learn practical ways to apply data science and cognitive technologies in their work.

Major Subjects:

- How to spot practical opportunities to use AI
- How to build a predictive algorithm
- Analytical methods appropriate for different types of data
- Approaches that are effective for different types of problems
- Methods to explore your data to find deeply hidden patterns
- Assessing reliability and validity
- Dealing with large numbers of variables
- Handing unstructured data
- Where to begin, how to learn more, how to access appropriate software

Learning objectives: Attendees will learn to leverage the differences between artificial intelligence and human judgement to improve professional judgment and decision-making. Attendees will learn to recognize the strengths and weaknesses of human reasoning processes and algorithmic processes and use that knowledge to avoid biases and leverage insight.

Level: Basic
Prerequisites: None
Advanced preparation: Not required

Hours: 1-4. Session available in 1-2 hour keynote format, a 1-4 hour presentation format or 2-4 hour workshop format.

Designed for: Analysts, auditors, governance and compliance professionals, and those working in the IT, HR, legal, and medical professions as well as executives, policymakers and other decision makers who want to gain a better understanding of how to apply AI and cognitive technologies in their work.

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