

Applied Data Literacy Boot Camp - TTDS6025

Hands-on Data Skills: Explore Data Flows, Analytics, Managing Data, Skills for Decision Making, Visualization and More

Duration: 3 Days

Skill Level: Introductory

Available Format: Instructor-Led Online ; On Public Schedule

A core component of our Data Masters SkillJourney Series, the Applied Data Literacy Boot Camp is an engaging three-day course that provides a comprehensive journey through the realm of data analytics. Led by an experienced data expert, the course is designed to cater to both beginners and seasoned professionals.

What You'll Learn

Overview

A core component of our *Data Masters SkillJourney Series*, the **Applied Data Literacy Boot Camp** is an engaging three-day course that provides a comprehensive journey through the realm of data analytics. Led by an experienced data expert, the course is designed to cater to both beginners and seasoned professionals. Throughout the program, you'll be immersed in a blend of essential and advanced concepts, applying practical models and learning from real-world examples. The course explores the four-pillar model of data and analytics, offering a well-rounded understanding of the field.

In addition to theoretical knowledge, the course places a strong emphasis on pragmatic data management and effective data visualization techniques. This approach ensures that you'll not only be equipped with the know-how of data analysis but also with the skills to make informed, data-driven decisions. Whether you're aiming to enhance your professional skills or boost your team's data literacy, this course provides a valuable and actionable learning experience, setting you up for success in the dynamic world of data analytics.

Objectives

Working in a hands-on, interactive learning environment, led by our engaging expert you'll explore:

- **The Flow of Data:** From collection to actionable insights.
- **Analytics Maturity:** Master descriptive, diagnostic, predictive, prescriptive, and semantic analytics.
- **Four-Pillar Model of Data Analytics:** Learn its application in business.
- **Organizational Strategy for Data Literacy:** Adopting data-informed decision-making.
- **Managing Data Environments:** Utilizing low-code/no-code solutions for data infrastructure.
- **Performance Metrics:** Identifying and tracking relevant KPIs.
- **Effective Data Visualization:** Designing dashboards and reports.
- **Analytical Thinking:** Questioning data and drawing insights.
- **Ethical Data Handling:** Navigating the ethical dimensions of data analytics.
- **Decision-Making:** Turning insights into actionable decisions.
- **Data Literacy Competency Framework:** Identifying and developing necessary competencies.
- **Assessing Data Literacy Maturity:** Personalizing your learning journey.
- **Project Management in Data Analytics:** Overseeing data and analytics projects.

Audience

This course is ideally suited for data analysts, business professionals, and teams seeking to enhance their data literacy and analytical capabilities. It caters to those aspiring to integrate data-driven decision-making and strategic insights into their professional roles across various industries.

Pre-Requisites

- A comfortable grasp of basic data handling, like working with spreadsheets or simple data sets.
- Some hands-on experience with common data tools – think along the lines of Excel or introductory SQL.
- An elementary understanding of how businesses operate, to help make sense of data in a real-world context.

Agenda

Please note that this topics, agenda and labs are subject to change, and may adjust during live delivery based on audience skill level, interests and participation.

Module 1: Understanding Data Literacy Concepts

The Beginning -The Flow of Data

- Understanding data's role in daily life
- Fundamentals of data analysis
- Introduction to data literacy concepts
- Exploring organizational data flow

Unfolding Your Data Journey

- Path towards analytics maturity
- Exploring different types of analyses: descriptive, diagnostic, predictive, prescriptive
- Case study: The life-saving power of data

Understanding the Four-Pillar Model

- Comprehensive overview of data literacy aspects
- Detailed look at the four pillars of data analytics
- Practical application and integration of the pillars

Implementing Organizational Data Literacy

- Strategies for fostering a data-literate culture
- Steps to plan and communicate a data literacy vision
- Designing and evaluating data literacy programs

Module 2: Measuring the Why, What, and How

Managing Your Data Environment

- Introduction to data management principles
- Assessing and improving data quality
- Future trends in data management
- Strategies for effective data strategy development

Aligning with Organizational Goals

- Linking data initiatives with business objectives
- Key considerations for data-driven goal alignment

Designing Dashboards and Reports

- Importance and principles of data visualization
- Pitfalls in visual representation of data
- The DAR(S) principle in visualization
- Selecting appropriate visualization types

Questioning the Data

- Cultivating curiosity and critical thinking in data analysis
- Tailoring questions to different stages of decision-making

Module 3: Understanding Change and Assessing Activities

Handling Data Responsibly

- Overview of risks in data analytics
- Addressing data security, privacy, and ethical concerns

Turning Insights into Decisions

- Framework for data-informed decision-making

- The art of storytelling with data

Defining a Data Literacy Competency Framework

- Establishing a framework for data literacy competencies
- Identifying essential data literacy skills

Assessing Your Data Literacy Maturity

- Techniques for assessing personal and organizational data literacy

Managing Data and Analytics Projects

- Understanding common pitfalls in data projects
- Best practices for project management in data analytics
- Crafting effective data analytics business cases

Related Courses

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| TTDS6683 | Introduction to R Programming for Data Science and Analytics |
| TTDS6022 | Data Literacy Basics for Everyone |
| TTDS6000 | Data Science & Big Data Overview: Tools, Tech & Modern Roles in the Data-Driven Enterprise |

All applicable course software, digital courseware files or course notes, labs, data sets and solutions, live coaching support channels, CodeCoach.AI anytime tutor access, and rich extended learning and post training resources are provided for you in our “easy access, single source, no install required” online **Learning Experience Platform (LXP)**, remote lab and content environment. Access periods vary by course. We’ll collaborate with you to ensure your team is set up and ready to go well in advance of the class. Please inquire about set up details and options for your specific course of interest.

For More Information

Please [contact us](#) or call 844-475-4559 toll free for more information about our training services (instructor-led, self-paced or blended), coaching and mentoring services, public course enrollment or questions, partner programs, courseware licensing options and more.