Decision Making and Business Analytics in Practice

Skills and expertise to help you increase your knowledge in the field of digital technologies

Education & Training Services

Leveraging data shall enable organizations to take full control of their business by understanding the past, the present, predicting and prescribing the future.

About this workshop

The importance of big data doesn't revolve around how much data you have, but what you do with it is important. You can take data from any source and analyze it to find answers that enables (a) cost reductions (b) time reductions (c) new product development and optimized offerings, and (d) smart decision making.

When you combine big data with high-powered analytics, you can accomplish business-related tasks such as:

- Determining root causes of failures, issues and defects in near-real time
- Generating coupons at the point of sale based on the customer's buying habits.
- Recalculating entire risk portfolios in minutes.
- Detecting fraudulent behavior before it affects your organization.

By the end of this course, you'll be able to understand:

- The future of your business depends on the data and analytics capabilities you build and scale.
- Critical components of Big Data and the role of IoT in Big Data, and Business Analytics.
- Elaborating Cognitive Computing Framework.
- Categorization of Analytical Decision Making Methods and Models.

Prerequisites:

Participants attending this course should be familiar with basic Information Technology (IT) concepts and the role of general system wide infrastructure technologies and their applications. In short, you should be from a business or technical background to take up this course. No other specific prerequisite is required.

Workshop Objective:

At the end of this course, you will be able to:

- Describe the Big Data landscape including examples of real world big data problems including the three key sources of Big Data: people, organizations, and sensors.
- Get value out of Big Data by using a 7-step process to structure your analysis.
- Identify what are and what are not big data problems and be able to recast big data problems as data science questions.
- Provide an explanation of the architectural components and programming models used for scalable big data analysis.
- Summarize the features and value of core Hadoop stack components.
- This course can also be attended who are new to data science and want to expand their knowledge in the field of Big Data Analytics and want to see Big Data Analytics in Practice.
- The role of analytics in strategy, and how it can help reduce bias in decision making, unearth growth opportunities, and more.
- In a nut shell, it will enable participants how to improve the efficiency of their entire business and helping them taking the emotion out of their strategic decision-making process and let data do the talking.

Unit 1 – Introduction to Big Data Technologies

- Exponential Components of Data Growth – Some key facts and figures.
- Understand how Technology is already being used.
- A new style of emerging IT and Key contributors to Big Data.
- Platform Sprawl - What is it?
- Understanding Big Data and data exploration.
- What does a Big Data platform do?
- Types of Data Sources with in Data Center.
- Understanding the types of Big Data.
- Understanding Big Data 3Vs.
- Analytics Breadth to Enable Decisions.
- Describe Hadoop.
- Understanding System of Records, Systems of Engagements, and Systems of Interactions.
- Harnessing Big Data & Big Data Challenges.
- High value Big Data Use Cases.
- Big Data as a Service Market and Key market Players.
- Unit 1 Assessment.

Unit 2 – The Role of IoT in Big Data Analytics

- What is Internet of Thing – IoT and Major components of IoT.
- Video Demonstration on IoT Use Case.
- How are IoT and Big Data together beneficial for Organizations?
- Understand how IOT Works and example of an IoT system.
- What are Sensor Based Data Acquisition Systems?
- Understanding IoT Hub and IoT Gateway.
- IoT Big Data processing model.
- Internet of Things – Hardware & Software.
- Basic Architecture of Internet of Things.
- IoT – Embedded Operating System and Supported Platforms.
- IoT in Banking – Enabling Banks' Digital Future.
- IoT Use Cases – Shaping Banks' Digital Future.
- IoT is the current wave of the Internet.
- M2M Vs IoT – A Smart Comparison
- IoT disadvantages that you should know.
- Why most IoT projects are unsuccessful.
- Understand the Role of your vendor, its business partner and you.
- Lesson learned from IoT project failures.
- Engaging IoT partner ecosystem for success.
- Unit 2 Assessment.

Opportunities are made, not found

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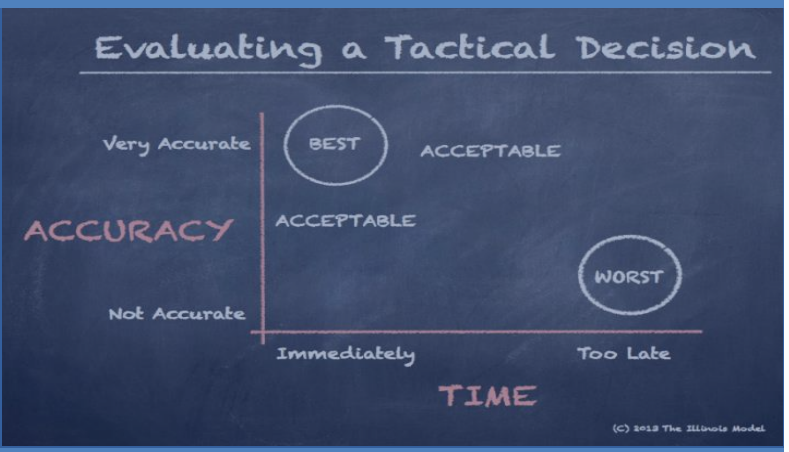
To improve the efficiency of the entire business, you need to take the emotion out of strategic decision-making and let data do the talking.

Explore a decision-making model and its process which individuals can follow or imitate to ensure they make the best choice among various options enabling them to design a solution by providing guidelines to help businesses reach a beneficial conclusion.



About the instructor

Training will be delivered by an experienced trainer with 25+ years of career experience imparting education and training services both locally and internationally and have served international enterprise technology vendors including IBM, Fujitsu, and ICL.

Our instructor holds various industry professional certifications in the space of enterprise servers and storage technologies, Information Security, Enterprise Architecture, ITIL, Cloud, Virtualization, Green IT, and a co-author of 10 IBM Redbooks and have developed 30+ courses in the space of Security and Digital technologies.

The training course flow will be a mix of lectures & classroom discussions so that participants can have a detailed understanding of various components of technologies causing digital disruption.

Unit 3 – Exploiting the Role of Analytics in Business

- Differentiating between analytics & business analytics.
- Understanding Data Mining.
- Main components of a typical Business Analytics dashboard.
- Business Analytics vs Data Analytics.
- Information Discovery and Visualization Environment.
- Types of Analytics and why analytics matter.
- Analytics mapping to the business applications.
- Elaborating Cognitive Computing and Cognitive Computing Framework.
- Characteristics of good Decision Making – Decision Intelligence Model.
- Five Key Actions for IT and Business Leaders for Better Decisions.
- A Categorization of Analytical Methods & Models.
- How Analytics is used to enable decisions.
- key benefits offered by Analytics.
- Why is Big Data and Analytics are important?
- The Analytical Life Cycle and Use-cases for big data analytics.
- The Data Science Process.
- Unit 3 Assessment.

Unit 4 – Decision Making and Business Analytics in Practice

- The importance of Dark Data in Big Data.
- The use of analytical methods in business applications – Video Demo.
- Decision Making – The High-level and Analytical process.
- Exploring the types of Decision Making and Business Analytics.
- The use of analytical methods in business applications.
- The Spectrum of Business Analytics.
- Decision-making methodologies.
- Describe Decision Management.
- Business Analytics in Practice.
  - Financial Analytics, Human Resource Analytics, Marketing Analytics, Health Care Analytics, Supply Chain Analytics, Analytics for Government, and Web Analytics.
- Big Data and Analytics Platform – The Big Picture.
- Using Analytics for better Decision-Making – Use Cases.
- The 10 Best Data Analytics and BI Platforms/Tools in 2020.
- Unit 4 Assessment.

According to various global surveys, banking and FSI shall remain there whereas the present network of banks who take the lead in transforming their core business and human resource towards completeness of **digital** shall survive. IoT has the potential to impact traditional business processes in banking such as KYC, lending, collateral management, trade finance, payments, personal finance management, and insurance.

Coupled with other emerging technologies, such as digital identity and smart contacts, IoT can create new "Person to Person" business models that have the potential to disrupt banking in a few areas. Also, we will study **8** IoT use cases that may be adopted in banking and see how IoT can help banks to convert into a technology based company offering enhanced banking services.

In a nut-shell, this workshop is equally beneficial for all other business industry sectors.

Target Audience

- Customers who want to build their knowledge in the space of Decision Making and Big Data Analytics and want to understand how to smartly tackle the challenges associated to decision making process by studying eight digital banking IoT use cases.
- CIO, CDO, CTO, Head of Digitalization, Business and Technology Leaders, Senior IT Managers and IT Directors, Business Analysts, Data Analytics and Data Science personals, Data Warehouse Engineers, Enterprise Architects, Project Managers, and all who want to equipped themselves with the foundational knowledge in the field of Decision Making and Big Data Analytics.
- IT Consultants and Systems Integrators, Presales Technical individuals, and fresh graduates who want to start their career in the field of Big Data, Data Science, Data Analytics and Technical Writers.

To see the complete list of all courses offered by TLC, please visit the following page: https://www.tlcpak.com/educ.html

Detailed Information

Course Code : TN211
Course Duration : 2 Day Workshop
Course Location : TLC, Online, and Customer On-site.
Terms & Conditions :100% payment in advance.
Course Deliverable: Comprehensive Student Guide and Course Certificate

For additional information, please write to us at info@tlcpak.com