

Program Overview

The Big Data Analytics Certification is essential for everyone working with Big Data. This certification provides an understanding of Big Data, potential data sources that can be used to solve real world problems, and an overview of data mining and its capabilities. Certification will help you become a Big Data Ready Professional.

Objective

Candidates can expect to gain knowledge and understanding in the following upon successful completion

of the education and examination components related to this certification.

- Explain Big Data, its origin, and its characteristics.
- Discuss about the tools applicable to Big Data processing.
- · Explain data mining.
- Discuss the popular Big Data technologies Hadoop and MongoDB.
- Discuss the Big Data projects and the main players involved.
- Identify and obtain relevant datasets when looking at a business problem.
- Install and manage Big Data processing environments based on Hadoop or MongoDB at a departmental level.

Target Audience:

- Software Engineers
- Application Developers
- IT Architects
- System administrators

Workshop Chronology

- Day 1: 9am 5pm Day 2: 9am – 5pm Day 3: 9am – 5pm Day 4: 9am – 5pm Day 5: 9am – 5pm •Exam will be on Day 3 for 1 hour (Closed Book)
- There is 40 Multiple Choice Questions
- 65% is the Passing rate

BECOME A BIG DATA PROFESSIONAL









Workshop Outline

DAY 1

Module 1. Big Data Fundamentals 1.1 Big Data – History, Overview, and Characteristics

- History
- Big Data Definition
- Big Data Benefits
- Big Data Volume, Velocity & Characteristics Variety
- 2. Big Data Technologies Overview
- 3. Big Data Success Stories
- 4. Big Data Privacy and Ethics
- Privacy Compliance
- Privacy Challenges
- Privacy Approach
- Ethics
- 1.5 Big Data Projects
- Who Should Be Involved?
- What Is Involved?

DAY 2 Madula 2 Bi

Module 2. Big Data Sources 2.1 Enterprise Data Sources

- Enterprise Systems
- Oracle
- SAP
- Microsoft
- Data Warehouses
- Unstructured Data Introduction
- Unstructured Data Metadata
- 2.2 Social Media Data Sources
- Introduction
- Facebook Introduction
- Facebook Public Feed API

- Twitter Streaming APIs
- Twitter REST APIs
- Twitter REST APIs
- Other Social Media
- 2.3 Public Data Sources
- Introduction
- Weather
- Economics
- Finance
- Regulatory Bodies

DAY 3

Module 3. Data Mining – Concepts and Tools

3.1 Data Mining – Introduction

- Introduction
- Types of Data Mining Overview
- Types of Data Mining Classification
- Types of Data Mining Association
- Types of Data Mining Clustering
- 3.2 Data Mining Tools
- Introduction
- Weka
- Modules of Weka Applications
- KNIME
- KNIME Example
- R Language

Shieh Management Sdn Bhd (830400-M)

8-12-4, Menara Mutiara Bangsar, Jalan Liku Off Jalan Riong, 59100 Bangsar Kuala

Lumpur

Mobile: +6019 601 1148

Email: info@shiehmgmt.com



<u>Workshop</u> <u>Outline</u>

DAY 3 (Continue) Module 4. Big Data Technologies – Hadoop

- 4.1 Hadoop Fundamentals
- Introduction
- Main Components of Hadoop
- Additional Components of Hadoop
- 4.2 Install and Configure
- Download
- How to Install and Configure

4.3 MapReduce

- Introduction
- How Does It Work?

4.4 Data Processing with Hadoop

- Introduction
- Twitter Sentiment Analysis Overview
- Twitter Sentiment Analysis Algorithm
- Network Log Analysis Overview
- Network Log Analysis Algorithm

Program Certified By:



DAY 4 Module 5. Big Data Technologies – MongoDB

5.1 MongoDB Fundamentals

- Introduction
- Replication
- Sharding
- Sharding and Replication
- MongoDB Ecosystem Languages and Drivers
- Mongo Reflection and the second second
- MongoDB Ecosystem Tools
- 5.2 Install and Configure
- Download
- How to Install and Configure
- 5.3 Document Databases
- Introduction
- Twitter Sentiment Analysis
- Twitter Sentiment Analysis Algorithm
- Network Log Analysis

5.4 Data Modelling with Document Databases

- Introduction
- Documents
- Document Design Considerations
- Fields

Examination

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Lumpur Mobile: +6019 601 1148 Email: info@shiehmgmt.com



Trainer Profile

Vigneswaren Krishnamoorthy

•Big Data Solutions • Analytics and Visualization • Machine Learning and Artificial Intelligence • Graph Database Solutions • Be-Spoke Software Solutions • Training and Consulting

Vigneswaren has been involved in software development for the past 24 years, from a junior developer, researcher till a Senior member of management in a multinational. He still maintains an active continuous learning practice picking up the latest technologies and applying them to solve problems in the industry. As a continuous learning advocate he encourages the staff and people around him to pick up new skills to be competitive in the industry.

He has successfully delivered large scale project implemented globally and locally including HRDF eTRIS as a key member to formulate transformation of their online services. His other projects have been in various other spaces including government, medical, telecommunications and finance. As part of the projects in recent times he has implemented cutting edge technologies that cover big data mining, analytics, machine learning and AI in the solutions.

He has provided trainings across the range from user software training to technical trainings including Big Data, Machine Learning and AI, Graph Database and Mind Mapping essentials. As a Solution Architect he works closely with clients to define scope and develops strategy to deliver on the requirements of the projects with development and deliver teams of the organization.

He currently provides consulting and training for companies who are looking to improve their software development practices and technology stack implementation and is actively involved in forums for technology and workforce improvement.





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