Big Data for Managers

Key Modules	Learning Outcomes
• Introduction to Hadoop • Hadoop Eco-system • Big Data Analytics • Cloud Deployment	• Data movement/Ingestion from traditional systems into Big Data system • Understand different layers of Big Data architecture • Advantages of Big Data Analytics on both structured & unstructured data • Stages of Big Data Analytics and Data flow in the technology stack

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- Expert led complimentary sessions on emerging technologies and industry updates
- Internship opportunities for performing students
- Certificate awarded by consulting companies
- 50% discount on high end programs

AI based Conversational Chat Bot Building

Key Modules	Learning Outcomes
NLP Implementations for Chatbot Development • Building a Retrieval-based chatbot (content-based) • Integrating & Implementing Neural Networks in chatbots • Generative chatbots • Attention Mechanisms for chatbot • Contextual Generative chatbots • Deploying the chatbot in Various Platforms	• • Understand the uses of chatbot • Understand the importance of NLP • Using neural networks for building chatbots • Understand the methodologies in chatbot building • Building chatbot by using Python and AI • Building your own chatbot as per your requirement • Deploying the chatbot in various platforms

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Machine Learning on Cloud!

Key Modules	Learning Outcomes
Introduction to Cloud Computing and Models • Brief Introduction to Amazon Web Service • Compute Services in AWS - Elastic Compute Cloud • Studying about Storage Services offered by AWS • Security features through Identity and Access Management • More about AWS RDS and Redshift • Machine Learning Using Amazon SageMaker • NLP and Text Mining using Amazon Comprehend • Building a Prediction Model using Machine Learning Service • Amazon Quicksight	• About Cloud Technology and its Advantages • Various Machine Learning Services offered on AWS • How Data is Loaded to Cloud Storage Services • Build Predictive Models using Amazon Machine Learning Services • Connecting Amazon Database Services and transforming the Data • How to Deploy a Model on Cloud

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Python and R Programming

Key Modules

PYTHON PROGRAMMING
• Introduction to Python Programming Language
• Installation of Python and Anaconda (GUI)
• Python Operations
• Python Packages
• Python Data Types
• Python Functions - Inbuilt and Custom functions
• Error Handling
• Data analytics
• Visualizations in Python
• Machine Learning & AI Packages

R PROGRAMMING
• Introduction to R Programming Language
• Installation of R and RStudio (GUI)
• Operations in R
• R scripts and executions
• Packages in R
• Data Types in R
• R Functions - Inbuilt and Custom functions
• Error Handling
• Data analytics
• Visualizations in R
• Machine Learning & AI Packages

Learning Outcomes
• Python and R programming languages and its uses for developers
• To learn how to write programs in Python and R
• To learn various Python and R data types
• Structure and different components of Python and R GUI tools
• To learn how to write functions and pass arguments to programs
• To understand about packages and its application in Python and R
• To learn to read and write data/files for processing
• To learn how to troubleshoot in Python and R

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Data Science for Internal Auditors & Accountants

Key Modules
• Data Science and Machine Learning applications
• Inferential and Descriptive Analytics for Auditors and Accountants
• Network Analytics and Graph Data in Identifying Fraud
• High Level Overview of Fraud Analytical Approach

Learning Outcomes
• Fraud Analytics Lifecycle and Critical Areas
• Reactive Approaches as well as Proactive Approaches
• Be able to perform varied Predictive Modelling and decide the best model
• Network Analytics techniques in identifying fraud
• Futuristic Advanced techniques in countering fraud

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