

SCALA

Introduction to Scala

- » Why Scala
- » Scala Vs Java
- » Scala Basics
- » Scala Data types
- » Scala Packages
- » Variable Declarations
- » Variable Type Inference
- » Control Structures
- » Interactive Scala – Scala Shell
- » Writing Scala Scripts – Compiling the Scala Programs
- » Defining Functions in Scala
- » Scala IDE

Object Oriented Programing in Scala (Traits & OOPS) Traits Introduction

- » When to use traits in Scala
- » Creating traits basic oops
- » Classes and Objects Basics
- » Case Class
- » Exception Handling in Scala

Functional Programing in Scala

- » What is Functional Programming
- » Difference between Object Oriented and Functional Programing Paradigm
- » Closures in Scala

Scala Environment Set Up

- » Scala set up on Windows
- » Java Set Up
- » Scala Set Up
- » Scala set up on Linux
- » Java Set Up
- » Scala Set Up

SPARK

Introduction to Spark

- » Motivation for Spark
- » Spark Vs Map Reduce Processing
- » Architecture Of Spark
- » Spark Shell Introduction
- » Creating Spark Context
- » File Operations in Spark Shell
- » Spark Project with MAVEN in Eclipse
- » Caching in Spark
- » Real time Examples of Spark

Flat No 101, 1st Floor, Sree Swathi Anukar, Ameerpet, Beside Aditya Trade Center.

Flat No: 212, 2nd Floor, Annapurna Block, Aditya Enclave, Ameerpet, Hyderabad.

Ph No: 040 6462 6789, 998 570 6789 info@kellytechno.com, www.kellytechno.com.

Resilient Distributed Dataset

- » What is RDD and why it is important in Spark
- » Transformation in RDD
- » Actions in RDD
- » Loading Data through RDD
- » Saving Data
- » Key-Value pair RDD
- » Pair RDD operations
- » Running Spark in a Clustered Mode
- » Deploying Application with spark-submit

Spark SQL

- » Introduction to Spark SQL
- » The SQL Context
- » Hive Vs Spark SQL
- » Spark SQL support for Text Files, Parquet and JSON files
- » Data Frames
- » Real Time examples of Spark SQL
- » Spark Streaming
- » Introduction to Spark Streaming
- » Architecture of Spark Streaming
- » Spark Streaming Vs Flume
- » Introduction to Kafka
- » Spark Streaming Integration with Kafka Overview
- » Real Time examples of Spark Streaming & Kafka

Spark Mlib

- » Introduction to Machine Learning
- » Vector Class in Mlib
- » Spark MLib Algorithms introduction
- » Classification and Regression Algorithms
- » Naïve Bayes Classification Algorithm
- » Decision Trees Algorithm Overview

Spark Integration with Zeppelin

- » Installing and configuring Zeppelin
- » Connecting to Spark from Zeppelin notebook
- » Visualizing and preparing dash boards

Spark Integration with Cassandra

- » Installing and configuring Cassandra
- » Creating Key spaces and Tables
- » Establishing pipeline between spark context and Cassandra node.