

## Chapter 65

# Analytics–as–a–Service (AaaS): An Elucidation to SOA

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### ABSTRACT

*Big Data Analytics is a major branch of data science where the huge amount raw data is processed to get insight for relevant business processes. Integration of big data, its analytics along with Service Oriented Architecture (SOA) is need of the hour, such integration shall render reusability and scalability to various business processes. This chapter explains the concept of Big Data and Big Data Analytics at its implementation level. The Chapter further describes Hadoop and its technologies which are one of the popular frameworks for Big Data Analytics and envisage integrating SOA with relevant case studies. The chapter demonstrates the SOA integration with Big Data through, two case studies of two different scenarios are incorporated that integrates real world implementation with theory and enables better understanding of the industrial level processes and practices.*

### BIG DATA: AN INTRODUCTION

Big Data as a terminology is mistaking as it is not small or big in term of data, but size in terms of volume as well as type of the data (structured/unstructured) in system. The Big Data is normally defined as the data set which is beyond the ability of traditional system to process. (Zikopoulos et al., 2011)

### Evolution of Big Data and Beyond

Figure 1 the big data landscape envisages a huge collection of Technologies, Architectures and concepts. The evolution of Big Data can be traced backward to dot com period of late 1990. The record of many years as well as the rate of generation of the data has reached new high in the process of evolution. The Big Data is data which is generated by the various sources primarily the social network, extending to

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