Discussion Board Assignment

1. Big Data Application Provider

Hello! My name is Deepti Vijay Khandagale.

After closely studying the NIST Big Data Reference Architecture, I find out that there are five main components namely; Data Provider, Big Data Application Provider, Big Data Framework Provider, System Orchestrator and Data Consumer. I think the most important component among the five is the Big Data Application Provider due to following reasons:

Firstly, the system orchestrator and the data consumers rely on the information provided by the big data application provider. So, the decision making or the evidence is supported through this data.

Secondly, big data application provider works as per the requirement of the system orchestrator. This means that it interacts and processes the data from the big data framework provider and data provider. It performs all the operational activity to extract the valuable information which is useful for the consumers.

1. Big Data solution

Hello! My name is Deepti Vijay Khandagale.

Topic: Big Data Solution for Google Maps

Google Maps is a perfect example of the big data solution and the application scalability. Google Maps is a real time mapping application owned by Google. It is used worldwide to find locations, traffic density, routes etc. The infrastructure of the application is built in such way that it can accommodate high volume data, different data types and handle the rate at which data is processed. This makes the application scalable at global level. Google maps collects real time data, majorly from the smartphone GPS (Global Positioning System) and from the traffic cameras, weather report and the social media updates based on the location. It combinedly uses this real time data and the historical data collected to predict the outcomes like time required to reach destination or the traffic in the particular location. The accurate prediction of google maps is due to its reliable data volume and use of powerful algorithms. Hence, due to the efficiency and the scalability of the Google Maps, it has become the most preferred application by the users and the businesses.