

RESEARCH DIRECTIONS FOR ENGINEERING BIG DATA ANALYTICS SOFTWARE

OBJECTIVE:

The objective of this system is to achieve actionable intelligence using big data software

ABSTRACT:

Many software startups and research and development efforts are actively taking place to harness the power of big data and create software with potential to improve almost every aspect of human life. As these efforts continue to increase, full consideration needs to be given to engineering aspects of big data software. Since these systems exist to make predictions on complex and continuous massive datasets, they pose unique problems during specification, design, and verification of software that needs to be delivered on-time and within budget. But given the nature of big data software, can this be done? Does big data software engineering really work? This article explores details of big data software, discusses the main problems encountered when engineering big data software, and proposes avenues for future research.

INTRODUCTION:

What is *big data software*? How is it different than non-big-data software? Can it be engineered? Answering these questions require exploration of the term *big data* for achieving consensus and arriving at a definition of big data software. A survey of the literature reveals numerous attempts at defining big data, varying based on context, domain, or perspective. From the infrastructure's perspective, big data has been defined as data with high volume, velocity and variety and unpredictability. In this context it has also been defined as data with some aspect that is so large that current, typical methods cannot be used to process it From the analytics perspective, big data has been defined as data so large that it contains significant low probability events that would be absent from traditional statistical sampling methods From the business users' perspective, big data represents opportunities for gaining a competitive advantage by gaining actionable intelligence .Each of these definitions provides descriptive and important aspects that must be supported by big data software. Borrowing from these definitions, the proposed definition for *big data software* is presented

EXISTING SYSTEM

There are many non big data softwares, in the non big data softwares we cannot store large amount of data and we cannot retrieve the data immediately