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Application of cloud computing in agriculture sector

Rishabh Goel, Jai Bhagwan, K K Chaturvedi, Anil Rai and P S Pandey
Indian Agricultural Statistical Research Institute, India

Information and communication have always been an essential part of human race. With the growing population and the ever rising demand for food, cloth, etc the scientists and researchers across the globe are trying hard to find innovative ways to meet these ever surging demands. As India is rightly said "The land of Agriculture", the major source of income in India is agriculture. Ever since people learned to grow crops, harvest them and sell them to market, they have sought information from each other and other sources to make maximum profit. But, even though the knowledge of the farmers is not adequate, they have grown the same crops for centuries, the ever changing weather conditions, soil fertility, pests and diseases etc affects the final outcome. This has raised the need for the latest information which allows the farmers to deal with these changes smoothly. However, providing such crucial and timely knowledge is a challenge in itself owing to the highly localized nature of agriculture. So we are trying the development of ICT basically focused on the Indian agriculture sector. In recent years, new ICT technologies are being implemented in every sector of the developing nations and the role of ICT has always been extremely crucial for the agriculture sector owing to the highly unpredictable nature of the later. The new application domain of ICT which can most widely and aptly be used for the upliftment of the agriculture sector is Cloud Computing. Cloud computing is a general term used to describe a new class of network based computing that take place over the internet. This study, introduces the concept of implementation of cloud computing in the Indian agricultural sector. It intends to initiate cloud computing model with two major parts the first part is Cloud Agro System to monitor and fulfil user requirements with a user-friendly and faster approach which includes services like demand-supply, communication, communication devices, e-knowledge sharing, conducting research and the other one e-Data Bank to store all relevant data in a centralized location deciphered as cloud like crop related, weather, soil information, growth progress monitoring farmers data, etc. Hence, if we need to improve the economic condition of these developing nations then the only way to do that is to improve the Indian agricultural sector. This upcoming technology is predicted to bring revolutionary changes to the agriculture sector.

Biography

Rishabh Goel is currently working at Indian Agricultural Statistical Research Institute, India.

2006.rishabh@gmail.com

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