TensorFlow

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1 Introduction

Tensor-Flow is an open an open source software library for numerical computation using data flow graphs. Nodes in the graph represent mathematical operation while the graphs represent multidimensional data arrays communicated between them.

2 Literature Review

The flexibility architecture allows one to develop computation to one or more CPU's or GPU's in the desktop , severs or mobile devices with a single API. It was originally developed by researchers and engineers working on the Google brain team with Google machine intelligence research organization for the propose of conducting machine learning and deep neural networks research

In an article by Nikitinsky Nikita, he defines tensor flow as a machine learning library using data flow graphs to build models. The main purpose of the library is to create models to solve various NLP and image recognition.
Nikitinsky also states that tensor flow is a second generation machine learning system to replace DistBelief
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Tanmay Bhandani states was built around the principles of reason and to think like humans

TensorFlow has many applications in machine learning learning and deep neural networks. it can be applied to linear regression