

WYSIWYG Approach to GUI for TensorFlow Deep Learning API

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Abstract

TensorFlow is a machine learning API (Application Program Interface) developed by Google in order to provide an optimized machine learning toolset for developers. This toolset is designed to be an all-in-one machine learning solution for users who do not have the time, technical skill set or resources to produce their own methods. Despite TensorFlow having useful applications and a rich manual it does not have an eloquent visualization software for its users. To address this issue we wish to develop a product that can display data between nodes in a computational graph and be as easy as placing nodes and drawing connections between them. Our target audience is individuals with little to no experience with deep learning or computer programming who specialize in fields such as data analysis and mathematics.