

Neuroactive – Machine learning in the cloud

Overview

Artificial neural networks (ANNs) have been responsible for much of the progress in artificial intelligence in recent years. ANNs are particularly well-suited to problems involving classification or prediction, and can achieve state-of-the-art performance in tasks such as image classification, voice recognition, and spam and fraud detection. The technology can be applied to a wide range of areas from health and finance through to analytical chemistry and the control of self-driving cars.

Neuroactive is a platform which will enable anyone to create, optimise, and deploy a neural network to the cloud using a simple web-based interface. Once a neural network has been trained, access to it will be provided through a simple API, allowing it to be integrated into an organisation's software projects using just a few lines of code.

The platform will include a marketplace for both data and ready-made neural networks which solve a variety of common technical and business problems. The latter will be created by a community of third-party developers, who will be able to earn revenue from their trained models without the burden of having to maintain their own back-end infrastructure.

All neural networks created using our system will be hosted on a globally-distributed network of servers, ensuring fast access from all key markets.

In summary, the proposed system could be described as “neural networks as a service”, with an integrated marketplace for both data and ready-to-use neural networks. The system will enable organisations and individuals to benefit from the power of machine learning without the need for expensive infrastructure or specialist in-house expertise.