Neural Networks (NN) Proposal

[Question Answering]

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Project statement

A question answering (QA) model is a type of artificial intelligence (AI) system designed to provide answers to natural language questions posed by humans. QA models use machine learning algorithms to analyze and understand the structure and meaning of text-based questions, and then search for relevant information within a large corpus of text data to generate an accurate answer. These models have various applications in fields such as customer service, education, healthcare, and information retrieval.

Project objectives

- Building a model that can accurately answer questions based on a given dataset or knowledge base.
- Developing methods to improve the model's accuracy and ability to handle a wide range of questions.
- Evaluating the model's performance and comparing it to other state-of-the-art question answering systems.

Tools

- Python
- TensorFlow
  - TensorFlow is an open-source software library developed by Google Brain Team for numerical computation and large-scale machine learning.
  - TensorFlow supports a wide range of machine learning algorithms, including neural networks, decision trees, support vector machines, and more. It also includes a number of tools and utilities for working with data, visualizing models, and debugging code.
  - One of the key features of TensorFlow is its ability to scale to large datasets and complex models. It can be run on a variety of hardware platforms, including CPUs, GPUs, and TPUs, and can be deployed on a range of devices, from desktop computers to mobile phones and embedded systems.
- Keras

References

- Intel
- Stack overflow
- Facility section
- Google search