AI talks Neural Network Visualizer

The demo code in the recent "AI talks" video where we explained neural networks and their parameters. This code is built on top of `keras-visualizer` to allow you to easily create and visualize neural network architectures using Keras.

Installation Instructions

Step 1: Install Python 3.12.4

Download and install Python 3.12 from the official Python website.

Step 2: Install Graphviz

Download and install Graphviz from the official Graphviz website. Make sure to add Graphviz to your system PATH during installation.

Step 3: Add Python and Graphviz to PATH

Ensure that both Python and Graphviz are added to your system PATH.

Step 4: Install Other Requirements

Open a terminal and run the following commands to install the necessary Python packages:

```
pip install keras tensorflow pandas keras-visualizer
```

Step 5: Open the Jupyter Notebook

Navigate to the project directory and open the Jupyter Notebook `AI talks neural networks visualizer.ipynb`

Step 6: Using the Neural Network Visualizer

Feel free to experiment with different layer types and configurations to suit your needs then run the cells

```
from tensorflow.keras import models, layers
model = models.Sequential([
    layers.Input((3,)),
    layers.Dense(6, activation='softmax'),
    layers.Dense(8, activation='softmax'),
    layers.Dense(8, activation='softmax'),
    layers.Dense(6, activation='softmax'),
    layers.Dense(5, activation='softmax'),
    layers.Dense(1)
])
```

To learn more about the syntax and functionalities of Keras, refer to the Keras documentation

Happy learning! Click here to watch the AI talks demo video