Optilearn.nn.load_model

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The load_model function is responsible for loading a neural network model, including its weights, biases, activation functions, and dropout rates, from an H5 file. The function ensures that the model can be restored from a previously saved checkpoint, allowing for continued training or inference.

Key Features:

1. **Input Validation:**
    - The function accepts a string (file_path) that represents the path to the H5 file containing the model's parameters. It validates whether the file path has the .h5 extension.

Reading the H5 File:

- The function uses the h5py library to open the H5 file. It reads the file's contents and checks for specific keys:

Example:

```
model = load_model("my_model.h5")
print("Loaded model:", model)
```

Expected Output:

The function will load the model from the specified H5 file, and the returned model will have all the weights, biases, activation functions, and dropout rates that were saved earlier.

This method allows the model to be easily restored and used in subsequent training or inference stages.