Readme - Running the Artificial Neural Network Algorithm for Bike Rental Prediction in Jupyter Notebook

This document outlines the steps needed to run the Jupyter Notebook file "AML assignment 2.ipynb" for the Artificial Neural Network (ANN) algorithm that predicts the "Rented Bike Count" using the SeoulBikeData.csv file.

Requirements

- Python 3.x installed on your system.

- Jupyter Notebook installed on your system. If it's not installed, you can install it by typing the following command in your terminal/command prompt:

pip install notebook

- Required Python libraries: pandas, numpy, tensorflow, matplotlib, seaborn, sklearn, keras, scikeras.

You can install any missing libraries using pip:

pip install pandas numpy tensorflow matplotlib seaborn sklearn keras scikeras

Steps to Run the Notebook

1. **Data File:** Ensure the SeoulBikeData.csv file is in the same directory as the Jupyter Notebook file. If it's located elsewhere, you'll need to modify the Notebook to point to the correct directory where the file is stored.

2. **Jupyter Notebook File:** The Jupyter Notebook file "AML assignment 2.ipynb" containing the ANN algorithm should be prepared.

3. **Run the Notebook:** Open your terminal or command prompt, and navigate to the directory where your Jupyter Notebook file is located using the 'cd' command.

cd path_to_your_directory

4. Once you are in the correct directory, you can run your Jupyter Notebook by typing:

jupyter notebook "AML assignment 2.ipynb"

5. The Jupyter Notebook will then open in your default web browser. To execute the cells in the Notebook, click on a cell to select it and then press `Shift + Enter`.

Additional Notes

- Ensure that all the necessary libraries are properly installed and imported in your Notebook.

- If you encounter any issues while running the code, check the error message in the cell output. It typically indicates the problem, such as a missing library or a typographical error in the code.