

Configuration Manual

MSc Research Project
MSc AI for Business

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MSc Project Submission Sheet
School of Computing



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Programme: MSc AI for Business **Year:** 2023-2024
Module: MSc Research Practicum/Internship part 2
Supervisor: Rejwanul Haque
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Project Title: From Data to Dollars

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Signature: Muhammad Waqas Javed

Date: 11-08-2024

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Configuration Manual

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1. Setting Up python:

Ensure you have Python 3.9 or later installed on your system. You can download the latest version of Python from the official website: <https://www.python.org/downloads/>

It's recommended to use a virtual environment to keep your project dependencies isolated.

Open a terminal or command prompt and create a virtual environment:

```
python -m venv thesis_env
```

Activate the virtual environment:

- On Windows:

```
thesis_env\Scripts\activate
```

- On macOS/Linux:

```
source thesis_env/bin/activate
```

2. Installing PreRequisites:

a. Update pip:

Before installing libraries, ensure your `pip` is up-to-date:

```
pip install --upgrade pip
```

b. Install Required Libraries:

Install the libraries used in the notebooks:

```
pip install pandas numpy scikit-learn matplotlib keras tensorflow pickle
```

c. Verify Installations:

To verify the installations, you can try importing the libraries in Python:

```
import pandas as pd
import numpy as np
import keras
import tensorflow as tf
import matplotlib.pyplot as plt
```

3. Opening Jupyter Notebook:

a. Install Jupyter Notebook (if not already installed):

If you haven't installed Jupyter Notebook, you can do so by running:

```
pip install notebook
```

b. Launch Jupyter Notebook:

Start the Jupyter Notebook server:

```
jupyter notebook
```

This command will open the Jupyter Notebook in your default web browser. You can navigate to the directory where your notebooks are stored and open them.

c. Running Notebooks:

- In Jupyter Notebook, open the relevant `.ipynb` files.
- Run each cell sequentially by selecting the cell and clicking the "**Run**" button or by pressing `Shift + Enter`.
- Make sure that the notebooks are executed in the correct order if there are dependencies between them.