**Name: Biswash Poudel**

**StudentID: 4562109**

**Lab 1.1**

**Data exploration with Weka - Iris dataset**

1. Weka comes with a number of small datasets. Those files are located at C:\Program Files\Weka- 3-8 (If it is installed at this location. Or else, search for Weka-3-8 to find the installation location). In this folder, there is a subfolder named ‘data’. Open that folder to see all files that comes with Weka. [ paste the screenshot ]

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1. For easy access, copy the folder ‘data’ and paste it in your ‘Documents’ folder.
2. In this lab, we will work with the dataset Iris. To open Iris dataset, click on ‘Open file’ in the ‘Preprocess tab’. From your ‘data’ folder, select iris.arff and hit open. [ paste the screenshot ]

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1. To know more about the iris dataset, open iris.arff in notepad++ or in a similar tool and read the comments.

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1. Click on visualize tab to see various 2D visualizations of the dataset.
   1. Click on some graphs to see more details about it.
   2. In any of the graph, click one ‘x’ to see details about that data record. [ paste the screenshot ]

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1. Fill this table and [ paste the screenshot ]

|  |  |
| --- | --- |
| **Flower Type** | **Count** |
| Iris-setosa | 50 |
| Iris-versicolor | 50 |
| Iris-virginica | 50 |

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1. Fill this table: and [ paste the screenshot ]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Attribute** | **Minimum** | **Maximum** | **Mean** | **StdDev** |
| sepallength | 4.3 | 7.9 | 5.843 | 0.828 |
| sepalwidth | 2 | 4.4 | 3.054 | 0.434 |
| petallength | 1 | 6.9 | 3.759 | 1.764 |
| petalwidth | 0.1 | 2.5 | 1.199 | 0.763 |

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**Lab 1.2 – Detect phishing sites**

Objectives

Part 1: Prepare a VM Windows 10, a VM Windows SRV Essential

Part 2: Perform scanning tool to detect vulnerabilities on Windows SRV

Part 3: Reflection question

**Required Resources**

= A VM for Windows client with a minimum of CPU 1 core, 4 GB of RAM and 12 GB of free disk space.

= VMware Workstation Player, Oracle Virtualbox or any other software that meet NCT policy and your own convenience.

= Student USB storage device with a minimum capacity of 128GB formatted as NTFS.

**Instructions**

***Part 1***: Prepare a VM Windows 10, web browser, Internet connection with Netcraft exention

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Step 1: Google the Netcraft add-on for Internet Edge, Google Chrome and Firefox browsers

Netcraft

a. Google, download and install VMware student software.

Step 2: Install the add-on Internet Edge

a. Go the the link that you find to install the extension

b. Click on Get and Add extention, you will find the notification that the extension has been added.

[Take a screenshot 01 of the output windows and paste it here]

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The screenshot 01 must show the evidence that the extension has been added successfully.

Step 3: Repeat the steps 2 above with other browsers

a. Install just a new browser such as either Google Chrome or Firefox

b. Install the browser extension, and you will find the notification that the extension has been added.

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[Take a screenshot 02 of the output windows and paste it here]

The screenshot 02 must show the evidence that the extension has been added successfully.

***Part 2:*** Detect the phishing sites

a. Open the web browser and access some phishing site https://www.examp1eb4nk.com

[Take a screenshot 03 of the output windows and paste it here]

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The screenshot 03 to validate whether the security add-on extension work or not

***Part 3***: Reflection question

a. What do you think about the link whether it is malicious or not? And why?

Ans: The link looks malicious because it pretends to be a real site but has spelling errors (e.g., "examp1eb4nk" instead of "examplebank"). The Netcraft extension also blocked the site & flagged it as **Suspected Phishing** shown in the above images, confirming it's a threat.

Thank You