**AML 2203 – Advanced Python AI and ML Tools**

**Assignment – 1a**

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**PART-1 Import an XML file using python**

We have the following structure for books.xml and the code was designed to parse this particular XML file only

*<books>*

*<book>*

*<author>Gambardella, Matthew</author>*

*<title>XML Developer's Guide</title>*

*<genre>Computer</genre>*

*<price discount="0.15">44.95</price>*

*<publish\_date>2000-10-01</publish\_date>*

*<description>An in-depth look at creating applications with XML.</description>*

*</book>*

*</books>*

**Code:**

Graphical user interface, text, application, email

Description automatically generated

**Output:**

**Table

Description automatically generated**

**Part 2:** **Import a JSON file and analyze how different parts of JSON file can be parsed according to the business use case**

**Code:**

**Output:**

**Part3: Import the breast cancer dataset from sklearn library and attach the target variable data to the features data and store it in a JSON file**

**Code:**

**Graphical user interface, text

Description automatically generated with medium confidence**

**Output:**

We can see the file named breast\_cancer.json opening with a browser.

**A screenshot of a computer

Description automatically generated with medium confidence**

**Part4:** **Make a regression dataset (500) with 7 features while having 4 informative features and store them on disk in a csv file**

**Code:**

**Graphical user interface, text, application, email

Description automatically generated**

**Output:**

To make sure we have make the dataset we use heatmap and plotted the data with correlation and the screenshot of the CSV file is given below:

Graphical user interface, application, table, Excel

Description automatically generated