National College of Ireland

Configuration Manual

MSc Research Project
MSc in Data Analytics

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Project Submission Sheet
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Student Name:	Thanmayee Mandava
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Configuration Manual

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1 Download Airline Passenger Satisfaction Dataset from Kaggle

1. You can access the dataset using the following link

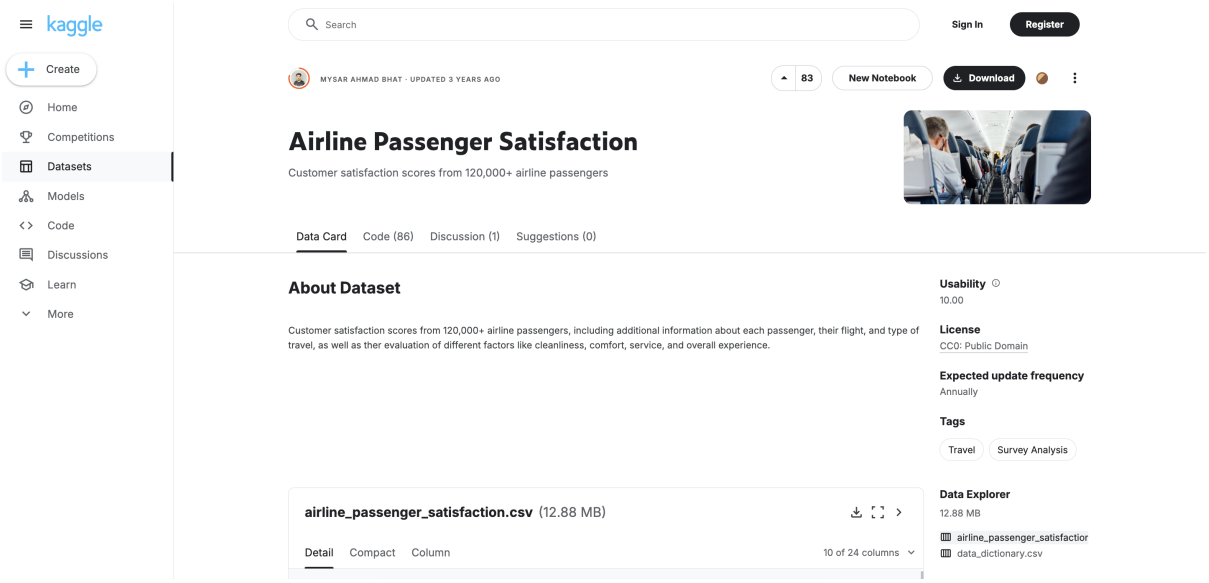

Figure 1: Airline Passenger Dataset

2 Google Colab Setup

2.1 Choose Plan

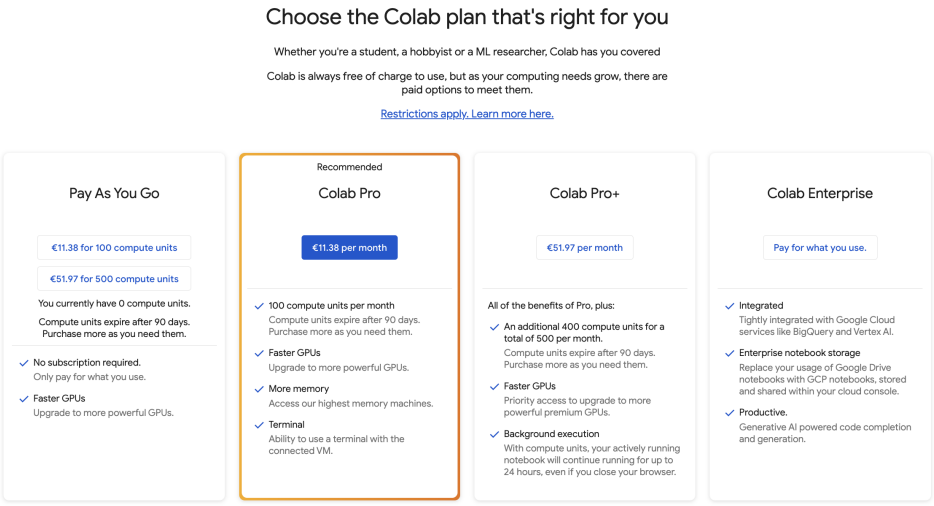

Figure 2: Choose Google Colab Pro

Buy Colab Pro (as shown in Figure 7)from the list of subscriptions in Google, which will be used further to run the code.

2.2 Getting started with Colab

1. **Upload the code to Colab.**
2. **Change the runtime type:**
   - Navigate to `Runtime` → `Change runtime type`.
   - Choose `T4 GPU` as the hardware accelerator Click on `Save`.

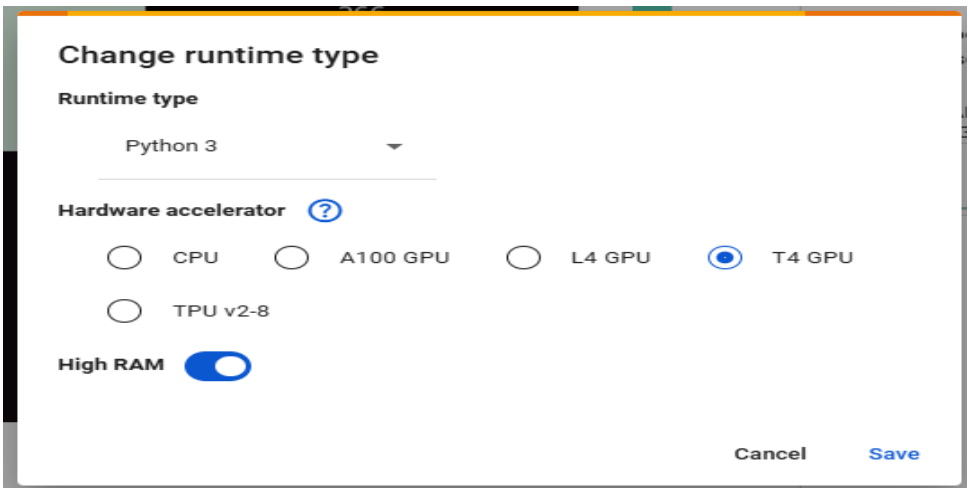

Figure 3: Runtime Type

3. **Connect to Google Drive:**

   - Mount your Google Drive to Colab to access the data file.

Figure 4: Google Drive Connection

4. **Prevent Google Colab from disconnecting:**

   - Google Colab automatically disconnects after a while, to handle this, right-click on the page and inspect. Then go to the console and run the following script (see Figure 5).

```
function ClickConnect(){
    console.log("Clicked on connect button");
    document.querySelector("colab-connect-button").click()
}
setInterval(ClickConnect,60000)
```

Figure 5: Javascript code to keep Google Colab connection alive

5. **Locate the data file:**

   - Once mounted, files and folders in Google Drive will appear in the side menu (see Figure 6).
   - Locate the data file, copy its file path, and ensure it is accurate.

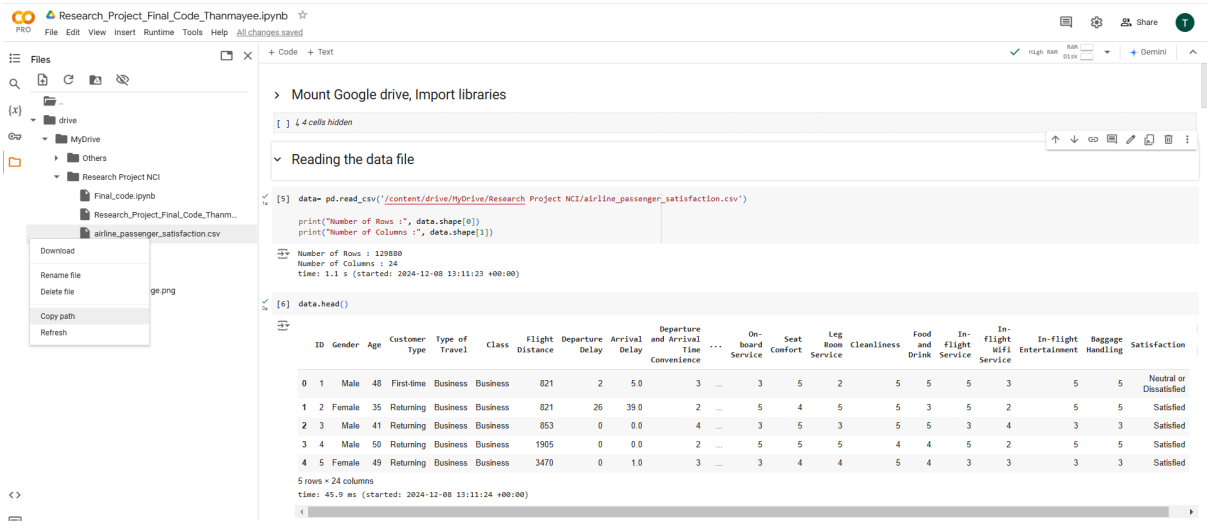

Figure 6: Data file location

6. **Replace the file path in the code:**

   - Update the code snippet in the "Reading the file" section with the copied path:

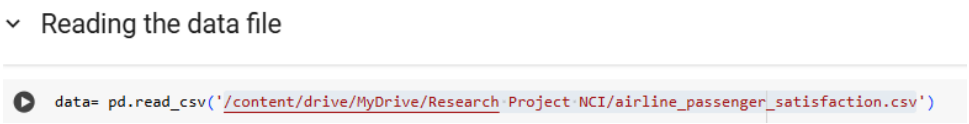

Figure 7: File path

7. **Run all cells:**

   - Navigate to `Runtime` → `Run all` to execute all cells in the notebook.