**Excel File Processing Techniques (CSV, XLS, XLSX)**

**Classes and Functions Used for CSV, XLS, XLSX**

Different programming languages provide various libraries and functions to handle Excel files. Below are some widely used libraries:

* **Python**:
  + pandas: read\_csv(), to\_csv(), read\_excel(), to\_excel()
  + openpyxl: Read and write XLSX files
  + xlrd: Read XLS files
  + xlwt: Write XLS files
* **Java**:
  + Apache POI: Workbook, Sheet, Row, Cell
  + OpenCSV for handling CSV files
* **C#**:
  + Microsoft.Office.Interop.Excel
  + EPPlus for Excel processing

**How to Save Data with CSV and XLS/XLSX Files**

**Saving a CSV File in Python:**

import pandas as pd

data = {"Name": ["Alice", "Bob"], "Age": [25, 30]}

df = pd.DataFrame(data)

df.to\_csv("data.csv", index=False)

**Saving an XLSX File:**

with pd.ExcelWriter("data.xlsx", engine="openpyxl") as writer:

df.to\_excel(writer, sheet\_name="Sheet1", index=False)

**How to Read Data with CSV and XLS/XLSX Files**

**Reading a CSV File:**

df = pd.read\_csv("data.csv")

print(df)

**Reading an XLSX File:**

df = pd.read\_excel("data.xlsx", sheet\_name="Sheet1")

print(df)

**How to Analyze and Read Data in XLS/XLSX Components**

**Extracting Specific Columns from an Excel File:**

selected\_columns = df[["Name", "Age"]]

print(selected\_columns)