

The University of Azad Jammu and Kashmir, Muzaffarabad

Department of Software Engineering

**Probability and Statistics (MT– 2105)**

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Import file into Jupyter Notebook for Python Code

To import any file format into Jupyter Notebook for Python code, you can use various libraries depending on the format of the file. Here's how you can import different file formats:

1. **CSV Files:**

For comma-separated values (CSV) files, you can use the `pandas` library, which provides powerful data manipulation and analysis tools. Here's how to import a CSV file:

import pandas as pd

# Read CSV file into a pandas DataFrame

df = pd.read\_csv('file.csv')

1. **Excel Files:**

To import Excel files, you can also use `pandas`. Here's how:

import pandas as pd

# Read Excel file into a pandas DataFrame

df = pd.read\_excel('file.xlsx')

1. **JSON Files:**

For JavaScript Object Notation (JSON) files, you can use the built-in `json` module or the `pandas` library:

import json

# Read JSON file

with open('file.json', 'r') as f:

data = json.load(f)

1. **Text Files:**

For plain text files, you can use Python's built-in file handling capabilities:

# Read text file

with open('file.txt', 'r') as f:

text = f.read()

1. **Image Files:**

To import image files, you can use the `matplotlib` library or specialized image processing libraries like `PIL` (Python Imaging Library):

from matplotlib import image as mpimg

# Read image file

img = mpimg.imread('image.png')

1. **Other File Formats:**

For other file formats such as XML, HTML, or specific data formats, you can use specialized libraries tailored for those formats. For example, `xml.etree.ElementTree` for XML files, `BeautifulSoup` for HTML parsing, or specific libraries designed for proprietary formats.

Remember to replace `'file.extension'` with the path to your actual file. Jupyter Notebook provides an interactive environment where you can run these code snippets and explore your data interactively.