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Web Scraping & Pandas Cheat Sheet


Requests + BeautifulSoup
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import requests
from bs4 import BeautifulSoup

url = "https://example.com"
response = requests.get(url)
soup = BeautifulSoup(response.text, "html.parser")


Finding Elements
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soup.find("table")                  # First table
soup.find_all("table")              # All tables
soup.find("tr")                     # First row
soup.find_all("tr")                 # All rows
soup.find("td").text.strip()        # Cell text, cleaned


Pandas Basics
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import pandas as pd

df = pd.DataFrame(columns=["Date", "Revenue"])          # Empty DataFrame
df = pd.read_html(str(table))[0]                         # From BeautifulSoup table
df.head()                                                # First 5 rows
df.tail()                                                # Last 5 rows


Cleaning Data
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df["Revenue"] = df["Revenue"].str.replace("$", "")
df["Revenue"] = df["Revenue"].str.replace(",", "")
df["Revenue"] = pd.to_numeric(df["Revenue"], errors="coerce")
df = df.dropna()                                         # Remove empty rows


Adding Rows
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new_row = pd.DataFrame({"Date": ["2025-01-01"], "Revenue": ["1000"]})
df = pd.concat([df, new_row], ignore_index=True)


Data Types
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df["Revenue"] = df["Revenue"].astype(float)        # Convert to float
```