

# Python Cheatsheet Summaries (Core, Data Workflows, Web/APIs)

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## 1) Core Python Examples Summary

Core Python Examples:

- Syntax Basics: if/else, loops, f-strings.
- Collections: list.append(), dict.get(), set operations.
- Comprehensions: [x for x in seq if cond].
- Functions: def func(\*args, \*\*kwargs).
- Built-ins: sorted(), zip(), enumerate(), any(), all().

Mini-Project: CSV -> Clean -> Excel -> Summary.

## 2) Data Workflows Summary

Data Workflows:

- File I/O: pd.read\_csv(), df.to\_excel().
- Cleaning: str.strip(), pd.to\_datetime(), fillna().
- Aggregation: groupby(), sum().
- Merge: pd.merge(), pd.concat().
- Visualization: df.plot(kind='bar').

Mini-Project: Load CSV -> Clean -> Aggregate -> Export Excel -> Plot.

## 3) Web/APIs/Automation Summary

Web/APIs/Automation:

- HTTP: requests.get(url), requests.post(url, json=data).
- Auth: headers={'Authorization': 'Bearer TOKEN'}.
- Parsing: resp.json().
- Scraping: BeautifulSoup(html, 'html.parser').find('tag').
- Automation: schedule.every(10).seconds.do(job).

Mini-Project: Fetch API -> Transform -> Save CSV.