

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.