**PEP 8 CODE VERIFICATION**

**CHECKLIST**

This comprehensive checklist consists of few essential points. Upon successful verification of all these points, the code will align with PEP 8 standards.

* **Indentation:** Use 4 spaces for indentation. Avoid tabs.
* **Maximum Line Length:** Keep lines under 79 characters.
* **Line Breaks Around Binary Operators:** Break lines before binary operators.
* **Blank Lines:** Use blank lines to separate logical sections of code.
* **Imports:** Place imports at the top of the file. Group them by standard library, third-party, and local modules.
* **String Quotes:** Use single quotes for string literals unless a string contains a single quote.
* **Whitespace in Expressions and Statements:** Avoid extraneous whitespace.
* **Comments:** Write clear comments to explain complex code.
* **Naming Conventions:** Follow consistent naming conventions for variables, functions, and classes.
* **Avoid Global Variables:** Use local variables whenever possible.
* **Function and Method Arguments:** Be descriptive in naming function arguments.
* **Constants:** Use uppercase letters for constants.
* **Documentation Strings (Docstrings):** Include docstrings to explain module, class, and function behaviour.
* **Avoid Trailing Whitespace:** Remove trailing spaces at the end of lines.
* **Use Descriptive Names:** Choose meaningful variable and function names.
* **Avoid Magic Numbers:** Assign constants to named variables.
* **Avoid Wildcard Imports:** Import only what you need.
* **Avoid Hardcoding Paths:** Use os.path or pathlib for file paths.
* **Consistent Line Endings:** Use consistent line endings (Unix or Windows).
* **Be Consistent:** Follow PEP 8 consistently throughout your code.

Reference: [https://realpython.com/pythonpep8/#:~:text=PEP%208%2C%20sometimes%20spelled%20PEP8,and%20consistency%20of%20Python%20code.](https://realpython.com/python-pep8/#:~:text=PEP%208%2C%20sometimes%20spelled%20PEP8,and%20consistency%20of%20Python%20code.)

INTERN VERIFICATION SENIOR VERIFICATION