Documentation Standards

- 1. All modules and functions must use standardized docstring format including:
 - o Args
 - Returns
 - Description
 - References

Experiment Tracking

- 1. All experiment execution programs must:
 - Save metadata to experiments.log
 - Use standardized naming conventions for output images
 - Include experiment ID and function name in all generated image filenames

Reproducibility

- 1. Every training script must:
 - Call torch.manual_seed
 - Document all package versions in requirements.txt

Dependency Management

- 1. Newly added packages must be immediately updated in environment configuration files:
 - o requirements.txt
 - o Dockerfile

Testing Procedures

- 1. Store all test-related code and results in the tests folder
- 2. Test code docstrings must fully document:
 - Test purpose
 - Test date
- 3. Tests must run automatically

GitHub Workflow (https://github.com/JNRLEE/SBP_analyzer.git)

- 1. When interacting with GitHub:
 - o Complete all tests before creating Pull Requests
 - o Always create Pull Requests to branches first

Project Structure

The project structure should be maintained according to:/Users/jnrle/Library/CloudStorage/GoogleDrivejenner.lee.com@gmail.com/My Drive/MicforDysphagia/ProjectDeveloper/SBP_analyzer/README.md

Import Conventions

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- 1. Project uses a flat structure:
 - All modules (analyzer, utils, metrics, etc.) are located directly under project root directory SBP_analyzer.
 - ALWAYS use these import patterns:

```
from analyzer import ... NOT from sbp_analyzer.analyzer import
...
```

- import utils.file_utils NOT import sbp_analyzer.utils.file_utils
- Run pytest from the project root directory to ensure import paths work correctly.
- 2. All directories intended as Python packages must include an __init__.py file.
- 3. Avoid creating nested sbp_analyzer directory inside project root.

Function and Class Index Standards

- 1. All code changes must maintain up-to-date function and class indices:
 - Update the main project index (FUNCTION_CLASS_INDEX.md) using function_class_index_generator.py
 - Update module-level indices in __init__.py files using update_module_index.py
 - Follow index maintenance instructions in CONTRIBUTION_GUIDE.md
- 2. When adding or modifying classes and functions:
 - Ensure proper docstrings that follow the standardized format
 - Run index generators after making significant changes
 - o Include brief descriptions that will appear in the indices
- 3. Module __init__py files must:
 - o Contain an up-to-date index of all classes and functions in the module
 - Include proper import statements and __all__ definitions
 - Include a reference to the main index file