

CodeAssistant 报告

1. 代码审查 (Review)

概览

| 指标 | 值 |
|--------|-----------|
| 问题总数 | 250 |
| 高/中/低 | 149/101/0 |
| 工具数 | 2 |
| DS 规则数 | 225 |

严重性分布

| 严重性 | 数量 |
|--------|-----|
| high | 149 |
| medium | 101 |

工具分布

| 工具 | 数量 |
|----------|-----|
| ds-rule | 225 |
| ast-rule | 25 |

DS 规则分布

| 规则 | 数量 |
|---------------------------|----|
| DS_PANDAS_APPLY_AXIS1 | 84 |
| DS_PANDAS_SETTINGWITHCOPY | 82 |
| DS_RANDOM_SEED | 42 |
| DS_PANDAS_ITERROWS | 16 |
| DS_HYPERPARAMS_HARDCODED | 1 |

Top 20 问题

| 严重性 | 工具 | 规则 | 位置 | 说明 |
|------|---------|----------------|--|---|
| high | ds-rule | DS_RANDOM_SEED | pandas/asv_bench/benchmarks/algorithms.py:40 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RANDOM_SEED | pandas/asv_bench/benchmarks/arithmetic.py:51 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RANDOM_SEED | pandas/asv_bench/benchmarks/array.py:122 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RANDOM_SEED | pandas/asv_bench/benchmarks/arrays_caching.py:14 | Randomness detected without an explicit seed. |

| 严重性 | 工具 | 规则 | 位置 | 说明 |
|------|---------|-----------------|---|---|
| high | ds-rule | DS_RAND_OM_SEED | pandas/asv_bench/benchmarks/boolean.py:9 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RAND_OM_SEED | pandas/asv_bench/benchmarks/categoricals.py:75 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RAND_OM_SEED | pandas/asv_bench/benchmarks/ctors.py:79 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RAND_OM_SEED | pandas/asv_bench/benchmarks/dtypes.py:85 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RAND_OM_SEED | pandas/asv_bench/benchmarks/eval.py:16 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RAND_OM_SEED | pandas/asv_bench/benchmarks/frame_ctor.py:33 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RAND_OM_SEED | pandas/asv_bench/benchmarks/frame_methods.py:43 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RAND_OM_SEED | pandas/asv_bench/benchmarks/gi.py:95 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RAND_OM_SEED | pandas/asv_bench/benchmarks/groupby.py:96 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RAND_OM_SEED | pandas/asv_bench/benchmarks/hash_functions.py:83 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RAND_OM_SEED | pandas/asv_bench/benchmarks/indexing.py:42 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RAND_OM_SEED | pandas/asv_bench/benchmarks/inference.py:27 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RAND_OM_SEED | pandas/asv_bench/benchmarks/join_merge.py:31 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RAND_OM_SEED | pandas/asv_bench/benchmarks/lists.py:65 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RAND_OM_SEED | pandas/asv_bench/benchmarks/multiindex_object.py:78 | Randomness detected without an explicit seed. |
| high | ds-rule | DS_RAND_OM_SEED | pandas/asv_bench/benchmarks/plotting.py:42 | Randomness detected without an explicit seed. |

复杂度摘要 (Radon)

F 16:0 main - A (2)

F 7:0 process_tempita - A (1)

D:\我的文件\我的文件夹\我的文件夹\我的文件夹\CodeAssistant\my_repo\pandas\generate_version.py

F 32:0 main - A (5)

F 13:0 write_version_info - A (3)

M 112:4 CleanCommand.initialize_options - B (10)

F 394:0 maybe_cythonize - B (6)

C 107:0 CleanCommand - B (6)

C 76:0 build_ext - A (5)

M 78:4 build_ext.render_template

M 167:4 CleanCommand.run - A

M 233:4 CheckSDist.run - A (5)

C 185:0 CheckSDist - A (4)

C 252:0 CheckingBuildExt - A (4)

M 257:4 CheckingBuildExt.check

M 98:4 build_ext.build_extensions

C 274:0 CythonCommand - A (2)

C 285:0 DummyBuildSrc - A (2)

F 31:0 is_platform_windows - A (

F 35:0 is_platform_mac - A (1)
F 427:0 srcpath - A (1)
M 164:4 CleanCommand.finalize_options - A (1)
M 230:4 CheckSDist.initialize_options - A (1)
M 269:4 CheckingBuildExt.build_extensions - A (1)
M 281:4 CythonCommand.build_extension - A (1)
M 290:4 DummyBuildSrc.initialize_options - A (1)
M 293:4 DummyBuildSrc.finalize_options - A (1)
M 296:4 DummyBuildSrc.run - A (1)
D:\u2022\u2022\u2022\CodeAssistant\my_repo\pandas\asv_bench\benchmarks\algorithms.py
M 34:4 Factorize.setup - C (11)
M 85:4 Duplicated.setup - B (9)
C 68:0 Duplicated - B (6)
C 15:0 Factorize - A (5)
C 111:0 DuplicatedMaskedArray - A (3)
C 176:0 Quantile - A (3)
M 184:4 Quantile.setup - A (3)
M 119:4 DuplicatedMaskedArray.setup - A (2)
C 133:0 Hashing - A (2)
M 134:4 Hashing.setup_cache - A (2)
C 198:0 SortIntegerArray - A (2)
M 61:4 Factorize.time_factorize - A (1)
M 64:4 Factorize.peakmem_factorize - A (1)
M 107:4 Duplicated.time_duplicated - A (1)
M 129:4 DuplicatedMaskedArray.time_duplicated - A (1)
M 154:4 Hashing.time_frame - A (1)
M 157:4 Hashing.time_series_int - A (1)
M 160:4 Hashing.time_series_string - A (1)
M 163:4 Hashing.time_series_float - A (1)
M 166:4 Hashing.time_series_categorical - A (1)
M 169:4 Hashing.time_series_timedeltas - A (1)
M 172:4 Hashing.time_series_dates - A (1)
M 194:4 Quantile.time_quantile - A (1)
M 201:4 SortIntegerArray.setup - A (1)
M 206:4 SortIntegerArray.time_argsort - A (1)
D:\u2022\u2022\u2022\CodeAssistant\my_repo\pandas\asv_bench\benchmarks\arithmetic.py
M 178:4 Ops.setup - A (3)
M 323:4 IndexArithmetic.setup - A (3)
C 454:0 BinaryOpsMultiIndex - A (3)
C 28:0 IntFrameWithScalar - A (2)
C 58:0 OpWithFillValue - A (2)
C 75:0 MixedFrameWithSeriesAxis - A (2)
C 113:0 FrameWithFrameWide - A (2)
M 133:4 FrameWithFrameWide.setup - A (2)
C 174:0 Ops - A (2)
C 204:0 Ops2 - A (2)
C 257:0 Timeseries - A (2)
C 286:0 IrregularOps - A (2)
C 298:0 TimedeltaOps - A (2)
C 307:0 CategoricalComparisons - A (2)
C 319:0 IndexArithmetic - A (2)
C 346:0 NumericInferOps - A (2)
C 373:0 DateInferOps - A (2)
C 422:0 OffsetArrayArithmetic - A (2)
C 441:0 ApplyIndex - A (2)
M 458:4 BinaryOpsMultiIndex.setup - A (2)
M 50:4 IntFrameWithScalar.setup - A (1)
M 54:4 IntFrameWithScalar.time_frame_op_with_scalar - A (1)
M 59:4 OpWithFillValue.setup - A (1)
M 68:4 OpWithFillValue.time_frame_op_with_fill_value_no_nas - A (1)
M 71:4 OpWithFillValue.time_series_op_with_fill_value_no_nas - A (1)
M 94:4 MixedFrameWithSeriesAxis.setup - A (1)
M 102:4 MixedFrameWithSeriesAxis.time_frame_op_with_series_axis0 - A (1)
M 105:4 MixedFrameWithSeriesAxis.time_frame_op_with_series_axis1 - A (1)
M 165:4 FrameWithFrameWide.time_op_different_blocks - A (1)
M 169:4 FrameWithFrameWide.time_op_same_blocks - A (1)
M 187:4 Ops.time_frame_add - A (1)
M 190:4 Ops.time_frame_mult - A (1)
M 193:4 Ops.time_frame_multi_and - A (1)
M 196:4 Ops.time_frame_comparison - A (1)
M 199:4 Ops.teardown - A (1)
M 205:4 Ops2.setup - A (1)
M 225:4 Ops2.time_frame_float_div - A (1)
M 228:4 Ops2.time_frame_float_div_by_zero - A (1)
M 231:4 Ops2.time_frame_float_floor_by_zero - A (1)

```

M 234:4 Ops2.time_frame_int_div_by_zero - A (1)
M 239:4 Ops2.time_frame_int_mod - A (1)
M 242:4 Ops2.time_frame_float_mod - A (1)
M 247:4 Ops2.time_frame_dot - A (1)
M 250:4 Ops2.time_series_dot - A (1)
M 253:4 Ops2.time_series_dot - A (1)
M 261:4 Timeseries.setup - A (1)
M 270:4 Timeseries.time_series_timestamp_compare - A (1)
M 273:4 Timeseries.time_series_timestamp_different_reso_compare - A (1)
M 276:4 Timeseries.time_timestamp_series_compare - A (1)
M 279:4 Timeseries.time_timestamp_ops_diff - A (1)
M 282:4 Timeseries.time_timestamp_ops_diff_with_shift - A (1)
M 287:4 IrregularOps.setup - A (1)
M 294:4 IrregularOps.time_add - A (1)
M 299:4 TimedeltaOps.setup - A (1)
M 303:4 TimedeltaOps.time_add_td_ts - A (1)
M 311:4 CategoricalComparisons.setup - A (1)
M 315:4 CategoricalComparisons.time_categorical_op - A (1)
M 330:4 IndexArithmetic.time_add - A (1)
M 333:4 IndexArithmetic.time_subtract - A (1)
M 336:4 IndexArithmetic.time_multiply - A (1)
M 339:4 IndexArithmetic.time_divide - A (1)
M 342:4 IndexArithmetic.time_modulo - A (1)
M 351:4 NumericInferOps.setup - A (1)
M 357:4 NumericInferOps.time_add - A (1)
M 360:4 NumericInferOps.time_subtract - A (1)
M 363:4 NumericInferOps.time_multiply - A (1)
M 366:4 NumericInferOps.time_divide - A (1)
M 369:4 NumericInferOps.time_modulo - A (1)
M 375:4 DateInferOps.setup_cache - A (1)
M 381:4 DateInferOps.time_subtract_datetimes - A (1)
M 384:4 DateInferOps.time_timedelta_plus_datetime - A (1)
M 387:4 DateInferOps.time_add_timedeltas - A (1)
M 426:4 OffsetArrayArithmetic.setup - A (1)
M 432:4 OffsetArrayArithmetic.time_add_series_o

```

2. 测试生成 (TestGen)

| 指标 | 值 |
|---------|--|
| 写入测试文件数 | 20 |
| 覆盖函数数 | 200 |
| 输出目录 | D:\陈飞帆\大学\数据挖掘\大作业\CodeAssistant\generated_tests |

覆盖率报告 (coverage report -m)

| Name | Stmts | Miss | Cover | Missing |
|---|-------|------|-------|--|
| pandas\pandas_init_.py | 36 | 25 | 31% | 46-238 |
| pandas\pandas_config_init_.py | 14 | 6 | 57% | 34-35, 39-40, 44-45 |
| pandas\pandas_config\config.py | 276 | 162 | 41% | 128-140, 187-191, 269-288, 332-341, 385-398, 402-403, 416-425, 428-433 |
| pandas\pandas_config\dates.py | 7 | 0 | 100% | |
| pandas\pandas_config\display.py | 24 | 7 | 71% | 27-28, 32-38, 42 |
| pandas\pandas_libs_init_.py | 5 | 3 | 40% | 17-19 |
| pandas\pandas_typing.py | 152 | 0 | 100% | |
| pandas\pandas\compat_init_.py | 30 | 12 | 60% | 49-52, 64, 76, 88, 100, 112, 126, 138, 151 |
| pandas\pandas\compat\constants.py | 15 | 0 | 100% | |
| pandas\pandas\compat\optional.py | 44 | 33 | 25% | 77-84, 148-191 |
| pandas\pandas\compat\numpy_init_.py | 24 | 6 | 75% | 18, 37-42 |
| pandas\pandas\compat\pyarrow.py | 27 | 11 | 59% | 22-32 |
| pandas\pandas\core_init_.py | 0 | 0 | 100% | |
| pandas\pandas\core\config_init.py | 203 | 196 | 3% | 35-915 |
| pandas\pandas\errors_init_.py | 78 | 73 | 6% | 18-1034 |
| pandas\pandas\util_init_.py | 19 | 17 | 11% | 3-25, 29 |
| pandas\pandas\util_exceptions.py | 50 | 38 | 24% | 23-34, 43-63, 87-101 |
| pandas\pandas\util\version_init_.py | 201 | 80 | 60% | 24, 27, 30, 33, 36, 39, 42, 45, 53, 56, 59, 62, 65, 68, 71, 74, 108, 139, 146, 151 |
| pandas\scripts_init_.py | 0 | 0 | 100% | |
| pandas\scripts\check_for_inconsistent_pandas_namespace.py | 62 | 44 | 29% | 45-46, 49-54, 57-59, 63-83, 89-117, 121-135, 139 |
| pandas\scripts\check_test_naming.py | 65 | 50 | 23% | 31-35, 39-41, 50, 56, 70, 80-138, 142-156 |
| pandas\scripts\generate_pip_deps_from_conda.py | 63 | 51 | 19% | 48-66, 92-126, 130-154 |

| | | | | |
|--|------|------|------|--|
| pandas\scripts\sort_whatsnew_note.py | 34 | 25 | 26% | 44-62, 66-78, 82 |
| pandas\scripts\tests_init_.py | 0 | 0 | 100% | |
| pandas\scripts\tests\conftest.py | 2 | 0 | 100% | |
| pandas\scripts\tests\test_check_naming.py | 8 | 4 | 50% | 37-40 |
| pandas\scripts\tests\test_inconsistent_namespace_check.py | 24 | 8 | 67% | 38-41, 48, 53-57 |
| pandas\scripts\tests\test_sort_whatsnew_note.py | 6 | 4 | 33% | 5-30 |
| pandas\scripts\tests\test_validate_docstrings.py | 92 | 88 | 4% | 10-530 |
| pandas\scripts\tests\test_validate_exception_location.py | 23 | 11 | 52% | 32, 38-45, 51-54, 58-59 |
| pandas\scripts\tests\test_validate_min_versions_in_sync.py | 20 | 12 | 40% | 47-58 |
| pandas\scripts\tests\test_validate_unwanted_patterns.py | 39 | 21 | 46% | 56-60, 225-229, 257-259, 296-298, 315-332 |
| pandas\scripts\validate_docstrings.py | 218 | 206 | 6% | 31-536 |
| pandas\scripts\validate_exception_location.py | 47 | 32 | 32% | 43-47, 52-54, 57-70, 76-88, 92-101, 105 |
| pandas\scripts\validate_min_versions_in_sync.py | 196 | 163 | 17% | 55-75, 79-84, 88-100, 106-126, 132-146, 152-179, 184-190, 196-227, |
| pandas\scripts\validate_unwanted_patterns.py | 124 | 105 | 15% | 88-95, 115-147, 164-177, 207-286, 310-340, 363-391, 430-442, 446-447 |
| pandas\web\pandas_web.py | 225 | 210 | 7% | 43-506 |
| pandas\web\tests\test_pandas_web.py | 30 | 26 | 13% | 12-88 |
| tests\test_math_utils.py | 9 | 7 | 22% | 4-12 |
| <hr/> | | | | |
| TOTAL | 2492 | 1736 | 30% | |