

pytest_report.html

Report generated on 05-Jan-2026 at 16:00:12 by [pytest-html](#) v4.1.1

Environment

Python	3.11.9
Platform	Windows-10-10.0.22631-SP0
Packages	<ul style="list-style-type: none">pytest: 8.4.2pluggy: 1.6.0
Plugins	<ul style="list-style-type: none">anyio: 4.11.0hydra-core: 1.3.2html: 4.1.1metadata: 3.1.1


Summary

92 tests took 00:00:11.

(Un)check the boxes to filter the results.

☐ 0 Failed, ☒ 92 Passed, ☐ 0 Skipped, ☒ 0 Expected failures, ☐ 0 Unexpected passes, ☐ 0 Errors, ☒ 0 Reruns

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Result 	Test	Duration	Links
Passed	tests/test_behavioral_model/directional_test.py::TestModelDirectional::test_one_hot_encoding_invariance	322 ms	
Passed	tests/test_behavioral_model/directional_test.py::TestModelDirectional::test_outlier_effect_on_prediction	311 ms	
Passed	tests/test_behavioral_model/directional_test.py::TestModelDirectional::test_max_heart_rate_relationship	285 ms	
Passed	tests/test_behavioral_model/directional_test.py::TestModelDirectional::test_oldpeak_elevation_increases_risk	316 ms	
Passed	tests/test_behavioral_model/directional_test.py::TestModelDirectional::test_exercise_angina_increases_risk	334 ms	
Passed	tests/test_behavioral_model/invariance_test.py::TestModelInvariance::test_prediction_determinism	329 ms	
Passed	tests/test_behavioral_model/invariance_test.py::TestModelInvariance::test_uniform_scaling_invariance	298 ms	
Passed	tests/test_behavioral_model/minimum_functionality_test.py::TestModelMinimumFunctionality::test_predict_returns_binary_array	280 ms	
Passed	tests/test_behavioral_model/minimum_functionality_test.py::TestModelMinimumFunctionality::test_predict_proba_returns_valid_probabilities	494 ms	
Passed	tests/test_behavioral_model/minimum_functionality_test.py::TestModelMinimumFunctionality::test_batch_prediction_consistency	289 ms	
Passed	tests/test_behavioral_model/minimum_functionality_test.py::TestModelMinimumFunctionality::test_correct_number_of_features	246 ms	
Passed	tests/test_behavioral_model/minimum_functionality_test.py::TestModelMinimumFunctionality::test_invalid_one_hot_encoding_detection	253 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/app/routers/model_info_test.py::test_model_hyperparameters	19 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/app/routers/model_info_test.py::test_model_metrics	8 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/app/routers/prediction_test.py::test_predictions_single_ok	268 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/app/routers/prediction_test.py::test_predict_batch_two_samples_ok	62 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/app/routers/prediction_test.py::test_explanations_single_ok	657 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/app/routers/prediction_test.py::test_predictions_model_not_loaded	5 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/app/routers/prediction_test.py::test_predictions_invalid_type	4 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/app/schema_test.py::test_heartsample_valid_creation	1 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/app/schema_test.py::test_heartsample_round_oldpeak	1 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/app/schema_test.py::test_heartsample_invalid_literal	1 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/app/schema_test.py::test_heartsample_to_dataframe	1 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestSaveScalerArtifact::test_save_scaler_creates_directory	7 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestSaveScalerArtifact::test_save_scaler_saves_correctly	8 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestSaveScalerArtifact::test_save_scaler_overwrites_existing	10 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestSaveScalerArtifact::test_save_unfitted_scaler	7 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestGenerateGenderSplits::test_creates_all_three_splits	14 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestGenerateGenderSplits::test_female_split_correct_rows	15 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestGenerateGenderSplits::test_male_split_correct_rows	14 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestGenerateGenderSplits::test_nosex_split_removes_sex_column	13 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestGenerateGenderSplits::test_no_sex_column_in_input	10 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestGenerateGenderSplits::test_empty_dataframe	13 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestGenerateGenderSplits::test_all_female_dataset	21 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestGenerateGenderSplits::test_preserves_all_columns_except_sex	15 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestPreprocessing::test_preprocessing_removes_invalid_restingbp	26 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestPreprocessing::test_preprocessing_encodes_sex[M-1]	29 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestPreprocessing::test_preprocessing_encodes_sex[F-0]	29 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestPreprocessing::test_preprocessing_encodes_exercise_angina[Y-1]	34 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestPreprocessing::test_preprocessing_encodes_exercise_angina[N-0]	26 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestPreprocessing::test_preprocessing_one_hot_encoding	24 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestPreprocessing::test_preprocessing_scales_numerical_features	24 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestPreprocessing::test_preprocessing_saves_scaler	103 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestPreprocessing::test_preprocessing_saves_csv	43 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestPreprocessing::test_preprocessing_preserves_target	22 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestPreprocessing::test_preprocessing_missing_raw_file	5 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestPreprocessing::test_preprocessing_empty_dataset	8 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestPreprocessing::test_preprocessing_returns_dataframe	27 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestPreprocessing::test_preprocessing_all_cholesterol_zero	28 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestPreprocessing::test_preprocessing_target_as_integer	24 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestPreprocessing::test_preprocessing_single_row	10 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/preprocess_test.py::TestPreprocessingIntegration::test_full_pipeline_with_splits	36 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/split_data_test.py::test_split_one_creates_files[all]	29 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/split_data_test.py::test_split_one_creates_files[female]	28 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/split_data_test.py::test_split_one_creates_files[male]	26 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/split_data_test.py::test_split_one_creates_files[nosex]	29 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/split_data_test.py::test_split_one_missing_csv_raises[all]	4 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/split_data_test.py::test_split_one_missing_csv_raises[female]	7 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/split_data_test.py::test_split_one_missing_csv_raises[male]	3 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/split_data_test.py::test_split_one_missing_csv_raises[nosex]	3 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/split_data_test.py::test_safe_train_test_split_basic[X0-y0-expected_classes0-DEBUG-Stratified split executed successfully]	6 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/split_data_test.py::test_safe_train_test_split_basic[X1-y1-expected_classes1-WARNING-Target has only one class]	3 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/data/split_data_test.py::test_safe_train_test_split_fallback_exception	3 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_evaluate.py::test_compute_metrics_all_models[logreg_model]	17 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_evaluate.py::test_compute_metrics_all_models[decision_tree_model]	21 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_evaluate.py::test_compute_metrics_all_models[random_forest_model]	88 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_evaluate.py::test_compute_metrics_without_predict_proba	4 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_evaluate.py::test_evaluate_variant_skips_when_models_dir_missing	8 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_evaluate.py::test_evaluate_variant_skips_model_when_no_milflow_run	13 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_evaluate.py::test_evaluate_variant_returns_when_experiment_missing	10 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_evaluate.py::test_evaluate_variant_happy_path_without_promotion	11 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_explainability.py::test_explain_prediction_tree_model_returns_explanations	36 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_explainability.py::test_explain_prediction_logreg_uses_coefficients	7 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_explainability.py::test_save_shap_waterfall_plot_creates_file	294 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_explainability.py::test_save_shap_waterfall_plot_non_tree_returns_none	5 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_predict.py::test_preprocessing_produces_expected_columns	15 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_predict.py::test_preprocessing_encodes_exerciseAngina_binary	12 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_predict.py::test_preprocessing_one_hot_chestPainType	9 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_predict.py::test_preprocessing_one_hot_restingecg	10 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_predict.py::test_preprocessing_one_hot_st_slope	14 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_predict.py::test_preprocessing_adds_missing_dummy_columns_with_zeros	13 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_train.py::test_load_split_ok	10 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_train.py::test_load_split_missing_file_raises	7 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_train.py::test_apply_random_oversampling_balances_classes	8 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_train.py::test_get_model_and_grid_valid[decision_tree-DecisionTreeClassifier]	1 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_train.py::test_get_model_and_grid_valid[logreg-LogisticRegression]	1 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_train.py::test_get_model_and_grid_valid[random_forest-RandomForestClassifier]	1 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_train.py::test_get_model_and_grid_invalid	1 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_train.py::test_run_grid_search_creates_cv_results	00:00:03	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_train.py::test_save_artifacts_writes_files	11 ms	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_train.py::test_train_end_to_end_small	00:00:02	
Passed	tests/test_predicting_outcomes_in_heart_failure/modeling/test_train.py::test_main_parsing_args_and_calls_train	3 ms	