

Profile Summary (Total time: 1.441 s)



Can print only one page at a time.

Generated 16-Dec-2025 16:50:10 using performance time.

Function Name	Calls	Total Time (s) ↴	Self Time* (s)	Total Time Plot (self time / total time)

profiling_test	1	1.049	0.004	
myclassifier	1	0.989	0.005	
Full_FeatureExtraction	1	0.781	0.056	█
preprocessCaptcha	1	0.655	0.021	█
preprocessCaptcha>estimate_skew_projection	1	0.389	0.015	█
imrotate	65	0.382	0.026	█
getExtendedErrorCallback	1	0.265	0.007	█
DocPageTopicMap>DocPageTopicMap.topicExists	1	0.248	0.002	
DocPageTopicMap>DocPageTopicMap.singleTopicExists	1	0.246	0.000	
DocPageTopicMap>DocPageTopicMap.getMappingForId	1	0.246	0.002	
DocPageTopicMap>DocPageTopicMap.ensureHelpTargetsPopulated	1	0.240	0.001	
DocPageTopicMap>DocPageTopicMap.retrieveHelpTargets	1	0.237	0.176	█████
imwarp	64	0.222	0.010	█
...mpactClassificationECOC>CompactClassificationECOC.predict	4	0.203	0.015	█
CompactClassificationECOC>CompactClassificationECOC.score	4	0.128	0.004	
CompactClassificationECOC>localScore	4	0.115	0.008	█
strel>MakeDiskStrel	3	0.110	0.012	█
smartForSliceout	4	0.104	0.008	█
imwarp>parseInputs	64	0.102	0.026	█
imdilate	3	0.099	0.004	
CompactClassificationECOC>localScore/loopBody	40	0.096	0.002	
CompactClassificationSVM>CompactClassificationSVM.predict	40	0.094	0.002	
ClassificationModel>ClassificationModel.predict	40	0.092	0.007	█
morphop	2	0.090	0.017	█
strel>strel.strel	18	0.083	0.011	█
imwarp>remapPointsAndResample	64	0.072	0.002	
imwarp>ippWarpAffine	64	0.070	0.018	█
applyGeometricTransformToSpatialRef	64	0.068	0.004	
CompactClassificationSVM>CompactClassificationSVM.score	40	0.061	0.007	█
...rkSpaceListener>WorkspaceListener.workspaceUpdatedFromCPP	1	0.059	0.003	
WorkspaceListener>WorkspaceListener.dispatchWSEvent	1	0.056	0.015	█
imref2d>imref2d.recomputeTransforms	448	0.049	0.026	█
imref2d>imref2d.imref2d	256	0.048	0.009	█
affinetform2d>affinetform2d.affinetform2d	64	0.048	0.003	
MatrixTransformation>MatrixTransformation.set_A	64	0.045	0.005	█
padarray	68	0.043	0.006	█
affine2d>affine2d.outputLimits	64	0.042	0.006	█
imread	1	0.041	0.009	█
strel>MakeLineStrel	2	0.041	0.004	
CompactSVMImpl>CompactSVMImpl.score	40	0.040	0.009	█
strel>MakePeriodicLineStrel	4	0.038	0.007	█
imwarp>padImage	64	0.038	0.006	█
Full_FeatureExtraction>hog_from_patch	4	0.036	0.001	
imlincomb	129	0.036	0.007	█

extractHOGFeatures	5	0.034	0.002	
..spaceListener>WorkspaceListener.executeWorkspaceListeners	1	0.032	0.020	
affine2d>affine2d.transformPointsForward	64	0.031	0.006	
preparseSpatialReferencingObjects	64	0.030	0.003	
imresize	4	0.029	0.006	
Full_FeatureExtraction>get_featLen	1	0.029	0.001	
attributes	128	0.029	0.004	
checkTransformationMatrixCondition	64	0.029	0.002	
predict	40	0.027	0.027	
preparseSpatialReferencingObjects>validateTform	64	0.027	0.004	
imlincomb>ParseInputs	129	0.025	0.018	
checkTransformationMatrixCondition>isBadlyConditioned	64	0.024	0.003	
processParallelAndStreamOptions	4	0.023	0.003	
regionprops	1	0.023	0.005	
validatestring	320	0.021	0.008	
imread>call_format_specific_reader	1	0.021	0.002	
bwareaopen	2	0.021	0.003	
snapWorldLimitsToSatisfyResolution	64	0.020	0.007	
fullfile	6	0.019	0.009	
findDocCatalogFiles	1	0.019	0.002	
ClassLabel>ClassLabel.ismember	115	0.019	0.006	
matlab_im\private\readpng	1	0.019	0.004	
stringToChar	153	0.019	0.013	
morphop>ParseInputs	2	0.018	0.009	
extractHOGFeatures>extractHOGFromImage	5	0.018	0.001	
imgaussfilt	1	0.018	0.002	
mat2gray	1	0.018	0.003	
decomposition>decomposition.decomposition	64	0.018	0.009	
ismember	90	0.017	0.005	
strel>strel.getpadsize	2	0.017	0.007	
padarray_algo	68	0.017	0.003	
graythresh	1	0.016	0.002	
images\private\morphop_fast	5	0.016	0.013	
fileread	1	0.016	0.014	
resizeParseInputs	4	0.015	0.005	
makeValidName	2	0.015	0.006	
print	1	0.015	0.004	
matlab_im\private\readpngutil	1	0.015	0.008	
attributes>checkAttrs	128	0.014	0.007	
bwconncomp	3	0.014	0.004	
padarray_algo>ConstantPad	68	0.014	0.014	
mean	425	0.014	0.008	
extractHOGFeatures>parseInputs	5	0.013	0.004	
padarray>ParseInputs	68	0.013	0.012	

orientX	44	0.013	0.003	
ismember>ismemberR2012a	90	0.012	0.005	
extractHOGFeatures>computeWeights	5	0.012	0.001	
ClassificationModel>ClassificationModel.get.Prior	44	0.012	0.006	
makeStructure	1	0.012	0.012	
strel>ParseInputs	9	0.012	0.009	
preprocessCaptcha>find_first_symmetric_pair	1	0.011	0.008	
print>LocalCreatePrintJob	1	0.011	0.003	
parseArgs	48	0.010	0.003	
imrotate>parse_inputs	65	0.010	0.009	
imerode	1	0.010	0.001	
strel>strel.getneighbors	6	0.009	0.007	
loss	4	0.009	0.003	
imref2d>imref2d.validateWorldLimits	384	0.009	0.009	
strcat	2	0.009	0.008	
imref2d>imref2d.set.ImageSize	64	0.009	0.002	
makeValidName>@(n)makeValid(n,@replaceWithUnderscore)	1	0.008	0.001	
extractParallelAndStreamFields	4	0.008	0.001	
preprocessCaptcha>find_second_pair_on_line	1	0.008	0.005	
imref2d>imref2d.get.PixelExtentInWorldX	1472	0.008	0.005	
validatestring>checkString	320	0.008	0.008	
imwarp>postProcessMethodString	64	0.008	0.004	
tempname	4	0.008	0.002	
imwarp>validateTform	64	0.008	0.002	
imwarp>castImageForIPPUse	64	0.008	0.008	
attributes>checkInputs	128	0.008	0.003	
sub2ind	7	0.008	0.008	
ismember>ismemberBuiltInTypes	90	0.008	0.008	
makeValidName>getMakeValidFcnHandle/makeValid	1	0.007	0.005	
imref2d>imref2d.get.PixelExtentInWorldY	1472	0.007	0.004	
imhist	1	0.007	0.002	
statget	12	0.007	0.002	
printing\private\checkArgsForHandleToPrint	1	0.007	0.007	
bwareaopen>parse_inputs	2	0.007	0.003	
ClassificationModel>ClassificationModel.get.Cost	44	0.007	0.006	
imref2d>imref2d.set.XWorldLimits	64	0.007	0.001	
images\private\bwconncomp_2d	3	0.007	0.004	
parseArgs	48	0.007	0.005	
imref2d>imref2d.set.YWorldLimits	64	0.007	0.002	
getLocalizedFileList	1	0.007	0.003	
regionprops>createOutputStatsStructure	1	0.007	0.004	
affine2d>affine2d.affine2d	65	0.007	0.002	
WorkspaceListener>WorkspaceListener.logEvent	5	0.007	0.006	
DocPageTopicMap>DocPageTopicMap.DocPageTopicMap	1	0.007	0.003	

imwarp>remapPartialParamNames	64	0.006	0.002	
extractHOGFeatures>gaussianWeights	5	0.006	0.001	
...ECOC>@(M,f)mean(max(0,1-M.*f,'includenan'),2,'omitnan')/2	40	0.006	0.001	
morphop>useIPP	6	0.006	0.006	■
stringToChar>@(x)convertToChar(x)	492	0.006	0.003	
imwarp>composeTransformation	64	0.006	0.003	
strel>strel.decompose	4	0.006	0.006	■
validateString>checkInputs	320	0.006	0.006	■
otsuthresh	1	0.005	0.003	
fileparts	1	0.005	0.002	
imbinarize	1	0.005	0.001	
decomposition>chooseDecomposition	64	0.005	0.002	
extractHOGFeatures>spatialHistWeights	5	0.005	0.004	
fspecial	5	0.005	0.003	
imgaussfilt>spatialGaussianFilter	1	0.005	0.001	
imgaussfilt>chooseFilterImplementation	1	0.005	0.001	
generateArgumentDescriptor	128	0.005	0.004	
getParamVal	12	0.005	0.001	
cell.ismember	7	0.005	0.005	
ClassificationModel>ClassificationModel.maxScore	44	0.005	0.004	
statset	4	0.005	0.005	
affine2d>affine2d.set_T	65	0.005	0.004	
...ocessParallelAndStreamOptions>parforValidateStreamOptions	4	0.005	0.001	
ifft2	1	0.004	0.004	
join	1	0.004	0.004	
extractHOGFeatures>validate	5	0.004	0.001	
meshgrid	74	0.004	0.004	
regionprops>ParseInputs	1	0.004	0.002	
getParamVal	12	0.004	0.003	
remapPartialParamNames	64	0.004	0.003	
getDocAnchorForErrorID	1	0.004	0.004	
contributions	8	0.004	0.004	
var	63	0.004	0.003	
matricesNearlyEqual	64	0.004	0.004	
HelpSystemCache>HelpSystemCache.HelpSystemCache	1	0.004	0.000	
imref2d>imref2d.get.ImageSize	3968	0.004	0.004	
fft2	1	0.004	0.004	
prefer_const	966	0.004	0.004	
ind2sub	7	0.004	0.004	
imgaussfilt>parseInputs	1	0.004	0.003	
prepareForPredictECOC	4	0.003	0.003	
HelpSystemCache>HelpSystemCache.reset	1	0.003	0.003	
...VariableObserver>MLNamedVariableObserver.workspaceUpdated	2	0.003	0.003	
imwarp>validateInterpMethod	64	0.003	0.001	

MatrixTransformation>MatrixTransformation.get_A	64	0.003	0.001
imref2d>imref2d.get.YIntrinsicLimits	448	0.003	0.003
extractHOGFeatures>hogGradient	5	0.003	0.001
makeClassificationModelAdapter	44	0.003	0.002
affinetform2d>affinetform2d.constrainA	64	0.003	0.001
decomposition>decomposition.set.CheckCondition	64	0.003	0.002
imref2d>imref2d.get.XIntrinsicLimits	448	0.003	0.003
unique	4	0.003	0.002
conndef	2	0.003	0.001
imref2d>imref2d.get.XWorldLimits	2688	0.003	0.003
resolveUseParallel	4	0.003	0.000
isGpuEnabled	1	0.003	0.001
resizeParseInputs>fixupSizeAndScale	4	0.003	0.001
attributes>valueAttributor	256	0.003	0.003
attributes>checkClass	128	0.003	0.003
resizeParseInputs>findMethodArg	4	0.003	0.001
...'_nonempty', fname, 'expectedNonempty', msgId, argname, argpos)	128	0.003	0.001
images\private\labelBinaryRuns	3	0.003	0.003
DocPageTopicMap>DocPageTopicMap.findMappingInHelpTargets	1	0.003	0.001
fileparts>legacyPCExecution	1	0.003	0.003
decomposition>decomposition.isIllConditioned	64	0.003	0.002
imref2d>imref2d.get.YWorldLimits	2688	0.003	0.003
imgaussfilt>useIPPL	1	0.003	0.001
stringToChar>convertToChar	492	0.003	0.003
bwconncomp>parseInputs	3	0.003	0.002
dominantType	44	0.003	0.003
DenseLU>DenseLU.DenseLU	64	0.003	0.003
resolveUseParallel>iResolveUseParallel	4	0.003	0.002
HelpSystemCache>HelpSystemCache.getData	2	0.003	0.001
intline	2	0.003	0.002
...r,A,'scalar', fname, 'expectedScalar', msgId, argname, argpos)	128	0.003	0.002
errorIfgpuArray	9	0.002	0.002
ClassLabel>ClassLabel.eq	26	0.002	0.002
resizeParseInputs>parsePreMethodArgs	4	0.002	0.002
fspecial>ParseInputs	5	0.002	0.002
Predictor>Predictor.get.TableInput	48	0.002	0.002
firstNonSingletonDim	448	0.002	0.002
extractHOGFeatures>computeGradient	5	0.002	0.002
regionprops>getPropsFromInput	1	0.002	0.002
mean>parseFlag	40	0.002	0.001
attributes>findSupportedAttr	256	0.002	0.002
morphop>ProcessOptionalArgs	2	0.002	0.001
bwpack	1	0.002	0.001
iptcheckconn	5	0.002	0.002

imclose	1	0.002	0.001
ClassificationModel>ClassificationModel.get.ClassNames	44	0.002	0.001
imhist>parse_inputs	1	0.002	0.002
affinetform2d>constrainA_alg	64	0.002	0.002
imrotate>useIPP	65	0.002	0.001
HelpSystemCache>HelpSystemCache.validate	3	0.002	0.001
im2double	1	0.002	0.002
imbinarize>parseInputs	1	0.002	0.001
regionprops>ComputePixelIdxList	1	0.002	0.001
morphop>useOCV	2	0.002	0.002
createGaussianKernel	1	0.002	0.002
rgb2gray	1	0.002	0.001
MatrixTransformation>checkA	64	0.002	0.002
imwarp>validateInputImage	64	0.002	0.002
Predictor>Predictor.getvrange	4	0.002	0.001
settings	3	0.002	0.001
getrangefromclass	2	0.002	0.001
const	1	0.002	0.001
target	214	0.002	0.002
matlab_im\private\cachedFormat	2	0.002	0.002
im2uint8	1	0.002	0.002
resizeParseInputs>isMethodString	4	0.002	0.001
ClassificationModel>ClassificationModel.get.ScoreType	4	0.002	0.001
isAffine	64	0.002	0.002
imfilter	1	0.002	0.001
affinetform2d>affinetform2d.setUnderlyingParameters	64	0.002	0.001
num2cell	44	0.002	0.002
extractHOGFeatures>checkSize	10	0.002	0.001
bwunpack	1	0.002	0.001
linspace	2	0.002	0.002
mustBeNonzeroLengthText	1	0.002	0.001
extractHOGFeatures>extractHOG	5	0.002	0.001
affinetform2d>affinetform2d.constructA	64	0.001	0.001
...rvices.WorkspaceListener.enableLXEListeners(currentState)	1	0.001	0.001
imread>get_full_filename	1	0.001	0.001
Predictor>Predictor.getNumberPredictors	44	0.001	0.001
getDocLanguageLocale	1	0.001	0.001
regionprops>InitializeStatStructures	1	0.001	0.001
imread>parse_inputs	1	0.001	0.001
extractHOGFeatures>setParams	5	0.001	0.001
makeClassificationModelAdapter>@(x)istall(x)	44	0.001	0.001
Predictor>Predictor.get.ObservationsInRows	92	0.001	0.001
ClassLabel>ClassLabel.numel	310	0.001	0.001
imbinarize>binarize	1	0.001	0.001

WorkspaceListenerList > WorkspaceListenerList.getListener	2	0.001	0.001	
imlincomb > imagePlusImage	129	0.001	0.001	
WorkspaceListener > WorkspaceListener.disableLXEListeners	1	0.001	0.001	
useIPPLibrary	136	0.001	0.001	
decomposition > parseInputs	64	0.001	0.001	
resizeParseInputs > parseMethodArg	4	0.001	0.001	
makeValidName > getMakeValidFcnHandle/replaceWithUnderscore	1	0.001	0.001	
fullfile > ensureTrailingFilesep	6	0.001	0.001	
HelpSystemCache > HelpSystemCache.isCurrent	3	0.001	0.001	
isfxpt	40	0.001	0.001	
iscategorical	213	0.001	0.001	
fftshift	1	0.001	0.001	
checkInputName	40	0.001	0.001	
mean > mysize	425	0.001	0.001	
decomposition > decomposition.rcond	64	0.001	0.001	
DenseLU > DenseLU.rcond	64	0.001	0.001	
extractHOGFeatures > getAutoBlockOverlap	5	0.001	0.001	
ifftshift	1	0.001	0.001	
strel > strel.getnhood	12	0.001	0.001	
remapPartialParamNames > my_strmatch	192	0.001	0.001	
errorIfNotFixedSize	25	0.001	0.001	
deriveScaleFromSize	4	0.001	0.001	
HelpSystemCache > HelpSystemCache.set.Data	1	0.001	0.001	
ClassificationModel > ClassificationModel.getScoreType	4	0.001	0.001	
extractHOGFeatures > validateImage	5	0.001	0.001	
cellstr	12	0.001	0.001	
checkSupportedNumeric	40	0.001	0.001	
iskeyword	459	0.001	0.001	
inline	1026	0.001	0.001	
resizeParseInputs > getMethodInfo	8	0.001	0.001	
...spaceListener > WorkspaceListener.getSetLXEListenersEnabled	4	0.001	0.001	
checkForMissingOutputArgument	4	0.001	0.001	
extractHOGFeatures > isSimMode	15	0.001	0.000	
strel > strel.isflat	9	0.001	0.001	
unique > uniqueR2012a	4	0.001	0.001	
WorkspaceListener > WorkspaceListener.logEventsEnabled	5	0.001	0.001	
extractHOGFeatures > crossValidateParams	5	0.001	0.001	
extractHOGFeatures > computeLowerHistBin	10	0.001	0.001	
imrotate > stringmatch	130	0.001	0.001	
preprocessImage	4	0.001	0.001	
imlincomb > image1MinusImage2	129	0.001	0.001	
validateUseParallelOption	4	0.001	0.001	
...celistener > WorkspaceListener.get.WorkspaceListenerEnabled	2	0.001	0.001	
makeValidName > getMakeValidFcnHandle	1	0.001	0.001	

imlincomb>imagePlusScalar	129	0.001	0.001	
errorIf	209	0.001	0.001	
strel>strel.getheight	6	0.001	0.001	
imgaussfilt>useSeparableFiltering	1	0.001	0.001	
...ariableObserver>MLNamedVariableObserver.get.IgnoreUpdates	2	0.001	0.001	
regionprops>ComputeArea	1	0.001	0.001	
Full_FeatureExtraction>default_feat_params	1	0.001	0.001	
imlincomb>image2MinusImage1	129	0.001	0.001	
settings	3	0.001	0.001	
fullfile>refinePath	6	0.001	0.001	
images\private\isImageIPPFiltType	1	0.001	0.001	
+coder\private\callOtherFunctionImpl	1	0.001	0.001	
ClassLabel>ClassLabel.labels	44	0.001	0.001	
numPredictorsCheck	44	0.001	0.001	
extractHOGFeatures>checkNumBins	5	0.001	0.000	
matlab_im\private\getFileFromURL	1	0.001	0.001	
Full_FeatureExtraction>trimBinary	8	0.001	0.001	
postprocessImage	4	0.001	0.001	
findFirstParamString	4	0.001	0.001	
rgb2gray>parse_inputs	1	0.001	0.001	
images\private\chooseFilterDomain	1	0.001	0.001	
resizeParseInputs>fixupSize	4	0.001	0.001	
convertStringToCharArgs	1	0.001	0.001	
countnan	40	0.001	0.001	
...aceListenerList>WorkspaceListenerList.getListenerListSize	3	0.001	0.001	
extractHOGFeatures>checkUsedSigned	5	0.001	0.000	
morphop>getPadValue	2	0.001	0.001	
...spaceListener>WorkspaceListener.getWorkspaceListenersList	3	0.001	0.001	
fullfile>addTrailingFileSep	6	0.001	0.001	
checkFillValues	64	0.001	0.001	
imwarp>validateSmoothEdges	64	0.001	0.001	
deal	1	0.001	0.001	
resizeParseInputs>scaleOrSize	4	0.001	0.001	
printing\private\isfigure	2	0.001	0.001	
extractHOGFeatures>getInputParser	5	0.001	0.001	
Predictor>Predictor.get.CategoricalPredictors	40	0.001	0.001	
getSettingsRoot	2	0.000	0.000	
validators\private\istext	1	0.000	0.000	
resizeAllDimUsingNearestNeighbor	4	0.000	0.000	
DocLanguage>DocLanguage.fromLanguageStr	1	0.000	0.000	
ClassLabel>ClassLabel.length	88	0.000	0.000	
WorkspaceListener>WorkspaceListener.enableLXELListeners	1	0.000	0.000	
imrotate>isProblemSizeTooBig	1	0.000	0.000	
imgaussfilt>validateSigma	1	0.000	0.000	

DocPageTopicMap > DocPageTopicMap.isValidGroup	1	0.000	0.000	
checkImageAgreementWithTform	64	0.000	0.000	
imwarp>isProblemSizeTooBig	64	0.000	0.000	
...tener>WorkspaceListener.getSetListenerExecutionInProgress	2	0.000	0.000	
strelcheck	2	0.000	0.000	
generateArgumentDescriptor>isCharOrString	384	0.000	0.000	
images\private\isImageTooBigForIPPFfilter	1	0.000	0.000	
imrotate>getOutputBound	1	0.000	0.000	
isInputIndexed	12	0.000	0.000	
isPureNearestNeighborComputation	8	0.000	0.000	
attributes>@(x)~isempty(x)	128	0.000	0.000	
mustBeTextScalar	2	0.000	0.000	
imrotate>checkStringValidity	130	0.000	0.000	
imbinarize>validateT	1	0.000	0.000	
imwarp>checkOutputViewAgreementWithTform	64	0.000	0.000	
imwarp>@(ref)isa(ref,'imref2d') isa(ref,'imref3d')	64	0.000	0.000	
strfun\private\isTextStrict	1	0.000	0.000	
var>mysize	63	0.000	0.000	
ClassLabel>ClassLabelisempty	26	0.000	0.000	
extractHOGFeatures>checkOverlap	5	0.000	0.000	
unpackRNGscheme	4	0.000	0.000	
images\private\checkCC	1	0.000	0.000	
resizeParseInputs>warnIfPostMethodArgs	4	0.000	0.000	
imbinarize>validateImage	1	0.000	0.000	
strel>strel.get.Neighborhood	6	0.000	0.000	
warningIf	64	0.000	0.000	
blanks	2	0.000	0.000	
resizeParseInputs>parseParamValuePairs	4	0.000	0.000	
images\private\morphop_fast>getMinMax	2	0.000	0.000	
box	8	0.000	0.000	
isfxpt>isBuiltInNumericML	40	0.000	0.000	
imwarp>manageFillValue	64	0.000	0.000	
isScalarText	4	0.000	0.000	
dimensionOrder	4	0.000	0.000	
istable	88	0.000	0.000	
imgaussfilt>computeFilterSizeFromSigma	1	0.000	0.000	
flipud	2	0.000	0.000	
istall	44	0.000	0.000	
missing>missing.missing	2	0.000	0.000	
getrangefromclass>iGetClass	1	0.000	0.000	
mean>isValidText	40	0.000	0.000	
images\private\getSeparableFilterThreshold	1	0.000	0.000	
fullfile>@(x)~iscell(x)&&isempty(x)	5	0.000	0.000	
identity	40	0.000	0.000	

validators\private\isCharRowVector	3	0.000	0.000		
preprocessCaptcha>default_preproc_params	1	0.000	0.000		

***Self time** is the time spent in a function excluding any time spent in child functions. The time includes any overhead time resulting from the profiling process.