

## Blob smell

Metrics	Accuracy	Added process metrics
PD	0.8767	-
PD+PS	0.8778	Age
PD+PS	0.8765	AuthorFragmentation
PD+PS	0.8782	AverageNumberOfAddedLines
PD+PS	0.8779	AverageNumberOfDeletedLines
PD+PS	0.8775	AverageNumberOfModifiedLines
PD+PS	0.8795	AverageTimeBetweenChanges
PD+PS	0.8786	CodeChurn
PD+PS	<b>0.8816</b>	<b>DaysWithCommits</b>
PD+PS	0.8787	MaxNumberOfAddedLines
PD+PS	0.8789	MaxNumberOfDeletedLines
PD+PS	0.8787	MaxNumberOfModifiedLines
PD+PS	0.8764	MeanAuthorCommits
PD+PS	0.876	MeanCommitMessageLength
PD+PS	0.8796	NumberOfBugFixes
PD+PS	0.8771	NumberOfCommitsWithoutMessage
PD+PS	<b>0.8842</b>	<b>NumberOfDistinctCommitters</b>
PD+PS	<b>0.8822</b>	<b>NumberOfRefactorings</b>
PD+PS	<b>0.8823</b>	<b>NumberOfRevisions</b>
PD+PS	0.8778	TimePassedSinceTheLastChange
PD+PS	0.8794	DaysWithCommits, NumberOfDistinctCommitters, NumberOfRefactorings, NumberOfRevisions

## Data class smell

Metrics	Accuracy	Added process metrics
PD	0.8612	-
PD+PS	0.8547	Age
PD+PS	0.8619	AuthorFragmentation
PD+PS	0.8617	AverageNumberOfAddedLines
PD+PS	0.8607	AverageNumberOfDeletedLines
PD+PS	0.8624	AverageNumberOfModifiedLines
PD+PS	0.8599	AverageTimeBetweenChanges
PD+PS	0.8605	CodeChurn
PD+PS	<b>0.8673</b>	<b>DaysWithCommits</b>
PD+PS	0.8619	MaxNumberOfAddedLines
PD+PS	0.8611	MaxNumberOfDeletedLines
PD+PS	0.8614	MaxNumberOfModifiedLines
PD+PS	0.8603	MeanAuthorCommits
PD+PS	<b>0.8644</b>	<b>MeanCommitMessageLength</b>
PD+PS	<b>0.8636</b>	<b>NumberOfBugFixes</b>
PD+PS	0.8613	NumberOfCommitsWithoutMessage
PD+PS	0.8595	NumberOfDistinctCommitters
PD+PS	<b>0.8641</b>	<b>NumberOfRefactorings</b>
PD+PS	<b>0.8644</b>	<b>NumberOfRevisions</b>
PD+PS	0.8586	TimePassedSinceTheLastChange
PD+PS	<b>0.8649</b>	<b>DaysWithCommits, MeanCommitMessageLength, NumberOfBugFixes, NumberOfRefactorings, NumberOfRevisions</b>

## Feature envy smell

Metrics	Accuracy	Added process metrics
PD	0.9698	-
PD+PS	0.9702	Age
PD+PS	0.9708	AuthorFragmentation
PD+PS	0.9704	AverageNumberOfAddedLines
PD+PS	0.9711	AverageNumberOfDeletedLines
PD+PS	0.9697	AverageNumberOfModifiedLines
PD+PS	0.9689	AverageTimeBetweenChanges
PD+PS	0.9686	CodeChurn
PD+PS	0.971	DaysWithCommits
PD+PS	0.9699	MaxNumberOfAddedLines
PD+PS	0.9707	MaxNumberOfDeletedLines
PD+PS	0.9701	MaxNumberOfModifiedLines
PD+PS	0.9696	MeanAuthorCommits
PD+PS	0.9701	MeanCommitMessageLength
PD+PS	0.9706	NumberOfBugFixes
PD+PS	0.9697	NumberOfCommitsWithoutMessage
PD+PS	0.971	NumberOfDistinctCommitters
PD+PS	0.9695	NumberOfRefactorings
PD+PS	0.9701	NumberOfRevisions
PD+PS	0.9694	TimePassedSinceTheLastChange

## Long method smell

Metrics	Accuracy	Added process metrics
PD	0.9089	-
PD+PS	0.9107	Age
PD+PS	0.91	AuthorFragmentation
PD+PS	0.9073	AverageNumberOfAddedLines
PD+PS	0.9053	AverageNumberOfDeletedLines
PD+PS	0.9084	AverageNumberOfModifiedLines
PD+PS	0.9098	AverageTimeBetweenChanges
PD+PS	<b>0.9166</b>	<b>CodeChurn</b>
PD+PS	0.9101	DaysWithCommits
PD+PS	<b>0.9146</b>	<b>MaxNumberOfAddedLines</b>
PD+PS	0.9091	MaxNumberOfDeletedLines
PD+PS	<b>0.9134</b>	<b>MaxNumberOfModifiedLines</b>
PD+PS	<b>0.9114</b>	<b>MeanAuthorCommits</b>
PD+PS	0.898	MeanCommitMessageLength
PD+PS	0.9076	NumberOfBugFixes
PD+PS	0.9074	NumberOfCommitsWithoutMessage
PD+PS	0.9051	NumberOfDistinctCommitters
PD+PS	0.9075	NumberOfRefactorings
PD+PS	<b>0.912</b>	<b>NumberOfRevisions</b>
PD+PS	0.9033	TimePassedSinceTheLastChange
PD+PS	<b>0.9118</b>	<b>CodeChurn, MaxNumberOfAddedLines, MaxNumberOfModifiedLines, MeanAuthorCommits, NumberOfRevisions</b>