House A

		Precision	Recall	F-Measure	Accuracy
Model	Feature				
HMM	Change	36.9	35.2	31.8	71.2
	Raw	30.8	13.8	12.9	59.7
	Last	21.8	19.3	15.2	66.0
	Last+Change	27.1	27.8	27.3	93.2
SVM	Change	34.7	11.4	9.5	53.1
	Raw	33.2	17.0	17.4	60.6
	Last	26.7	27.9	27.3	93.7
	Last+Change	48.8	29.0	29.3	93.7
CRF	Change	9.1	10.5	9.4	50.8
	Raw	13.3	13.6	13.4	56.9
	Last	25.8	25.7	25.6	91.1
	Last+Change	26.7	28.0	27.3	93.7
SSVM	Change	13.9	10.3	7.5	53.1
	Raw	23.0	15.2	15.3	61.3
	Last	30.3	29.2	28.9	93.7
	Last+Change	36.1	28.2	27.6	94.5
NB	Change	38.1	11.6	9.9	53.2
	Raw	52.7	17.3	17.0	63.1
	Last	28.3	28.2	27.7	94.4
	Last+Change	49.4	30.1	30.7	93.9

House C

| | | Precision | Recall | F-Measure | Accuracy |
Model	Feature				
HMM	Change	24.3	18.3	18.5	79.1
	Raw	3.0	5.9	3.9	48.9
	Last	27.3	28.3	26.1	78.3
	Last+Change	29.7	31.4	29.2	78.4
SVM	Change	19.3	6.4	5.0	46.6
	Raw	9.2	7.2	7.2	44.5
	Last	25.5	27.9	25.7	80.9
	Last+Change	27.1	27.8	25.8	81.0
CRF	Change	4.3	4.8	4.5	30.3
	Raw	6.7	7.1	6.7	42.8
	Last	11.4	13.0	12.1	74.5
	Last+Change	13.8	14.7	14.0	76.4
SSVM	Change	12.6	6.8	5.6	50.5
	Raw	20.8	13.3	14.0	55.8
	Last	24.7	22.3	20.8	78.5
	Last+Change	33.1	26.1	25.3	81.6
NB	Change	25.5	6.5	5.2	46.7
	Raw	28.3	17.0	16.1	53.3
	Last	32.4	28.1	26.5	81.5
	Last+Change	36.6	30.6	28.8	81.6

House B

Model	Feature	Precision	Recall	F-Measure	Accuracy
HMM	Change	15.9	17.9	16.8	80.7
	Raw	8.9	4.9	4.5	62.3
	Last	13.0	15.9	13.3	81.3
	Last+Change	13.0	15.9	13.3	81.3
SVM	Change	16.5	4.9	4.7	59.8
	Raw	10.9	9.7	8.3	58.4
	Last	17.3	15.1	15.0	81.9
	Last+Change	15.8	15.7	15.2	81.8
CRF	Change	2.3	3.8	2.9	59.3
	Raw	11.6	8.0	7.9	88.2
	Last	7.7	7.1	7.2	77.3
	Last+Change	6.0	6.4	6.1	77.3
SSVM	Change	15.3	5.0	4.8	60.4
	Raw	33.5	17.4	20.9	91.2
	Last	26.5	20.6	18.9	85.5
	Last+Change	31.7	18.0	19.8	87.6
NB	Change	23.9	5.2	5.2	60.1
	Raw	42.8	33.6	28.8	88.5
	Last	29.9	18.5	18.5	87.8
	Last+Change	30.7	20.9	21.8	87.8

House A Model HMM Feature Change

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	40.4	18.8	2.7	0.0	0.0	9.2	0.0	28.9	0.0	0.0
leave house	1.3	98.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet	18.8	1.4	68.7	0.0	0.0	9.1	0.0	2.0	0.0	0.0
take shower	33.9	10.5	0.0	54.7	0.0	0.0	0.0	0.8	0.0	0.0
brush teeth	44.3	17.2	38.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	10.4	50.7	0.0	0.0	0.0	38.9	0.0	0.0	0.0	0.0
prepare Breakfast	0.2	0.0	0.0	0.0	0.0	0.0	0.0	99.8	0.0	0.0
prepare Dinner	0.0	3.7	0.0	0.0	0.0	45.8	0.0	50.6	0.0	0.0
get snack	34.8	0.7	0.0	0.0	0.0	0.0	0.0	64.5	0.0	0.0
get drink	62.3	4.9	0.0	0.0	0.0	0.0	0.0	32.8	0.0	0.0

House A Model HMM Feature Raw

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	10.3	55.5	0.0	0.0	0.0	23.8	0.0	10.4	0.0	0.0
leave house	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet	7.7	67.3	4.6	0.0	0.0	20.5	0.0	0.0	0.0	0.0
take shower	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	0.0	85.4	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0
prepare Breakfast	29.8	24.7	0.0	0.0	0.0	22.4	0.0	23.1	0.0	0.0
prepare Dinner	28.2	62.7	0.0	0.0	0.0	0.4	0.0	8.7	0.0	0.0
get snack	4.7	33.2	0.0	0.0	0.0	30.7	0.0	31.4	0.0	0.0
get drink	19.4	75.7	0.0	0.0	0.0	0.7	0.0	4.2	0.0	0.0

House A Model HMM Feature Last

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	81.5	9.9	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0
leave house	0.1	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet	97.8	1.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
take shower	100.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	83.4	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	49.6	45.8	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0
prepare Breakfast	82.2	0.0	0.0	0.0	0.0	0.0	0.0	17.8	0.0	0.0
prepare Dinner	92.6	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0
get snack	65.7	1.1	0.0	0.0	0.0	0.0	0.0	33.2	0.0	0.0
get drink	90.9	0.7	0.0	0.0	0.0	0.0	0.0	8.4	0.0	0.0

House A Model HMM Feature Last+Change

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	77.8	9.8	0.0	0.0	0.0	5.0	0.0	7.3	0.0	0.0
leave house	0.1	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet	91.4	0.7	0.0	0.0	0.0	7.9	0.0	0.0	0.0	0.0
take shower	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	83.4	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	7.3	0.0	0.0	0.0	0.0	92.7	0.0	0.0	0.0	0.0
prepare Breakfast	82.1	0.0	0.0	0.0	0.0	0.0	0.0	17.9	0.0	0.0
prepare Dinner	92.6	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0
get snack	65.8	1.1	0.0	0.0	0.0	1.1	0.0	32.0	0.0	0.0
get drink	90.7	0.7	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0

House B Model HMM Feature Change

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	36.2	34.1	0.0	0.1	0.0	0.0	10.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	18.6	0.0	0.0	0.0
Leaving the house	0.5	91.3	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Use toilet	66.0	5.7	0.0	18.9	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0
Take shower	3.7	2.3	0.0	93.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
Brush teeth	20.6	79.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shaving	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	7.0	8.6	0.0	0.1	0.0	0.0	82.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	87.4	11.7	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare brunch	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	67.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.7	0.0	0.0	0.0
Prepare dinner	6.7	80.5	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Get a drink	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
Wash dishes	0.0	40.1	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	46.8	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0
Answering phone	0.0	0.0	0.0	0.0	0.0	0.0	92.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0	0.0
Eat dinner	0.0	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.2	0.0	0.0	0.0
Eat brunch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
Setting up sensors	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan
Unpacking	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fasten kitchen camera	0.0	92.4	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	22.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.2	0.0	0.0	0.0
Gwenn searches keys	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	36.8	49.3	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0
Drop dish (No dishwash)	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House B Model HMM Feature Raw

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	13.6	86.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leaving the house	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Use toilet	17.1	82.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Take shower	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brush teeth	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shaving	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	0.0	95.1	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	0.0	90.2	0.0	0.0	0.0	0.0	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare brunch	36.7	63.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare dinner	1.7	98.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get a drink	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash dishes	4.6	95.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Answering phone	0.0	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat dinner	0.1	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat lunch	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unpacking	4.8	93.9	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fasten kitchen camera	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	4.2	95.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gwenn searches keys	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	0.0	99.3	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drop dish (No dishwash)	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House B Model HMM Feature Last

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
Leaving the house	13.7	42.9	3.6	0.0	0.0	0.0	13.9	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	24.8	0.0	0.0	0.0
Use toilet	0.0	92.4	0.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Take shower	8.9	31.6	55.1	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0
Brush teeth	1.0	97.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
Shaving	25.0	69.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0
Go to bed	0.0	12.4	0.1	0.0	0.0	0.0	86.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	0.5	9.8	5.9	0.0	0.0	0.0	43.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0.0	0.0
Prepare brunch	34.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	51.6	0.0	0.0	0.0	0.0	0.0	15.6	0.0	0.0	0.0	0.0	0.0	0.0	22.1	0.0	0.0	0.0
Prepare dinner	10.5	82.0	2.3	0.0	0.0	0.0	2.5	0.0	3.4	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Get a drink	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash dishes	0.0	26.8	0.0	0.0	0.0	0.0	0.0	0.0	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0
Answering phone	52.5	3.0	0.0	0.0	0.0	0.0	92.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0
Eat dinner	0.0	12.8	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.0	0.0	0.0
Eat brunch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
Setting up sensors	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan
Unpacking	26.7	6.2	1.1	0.0	0.0	0.0	47.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	0.0	35.1	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.9	0.0	0.0	0.0
On phone	0.0	99.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fasten kitchen camera	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	0.2	1.9	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	97.7	0.0	0.0	0.0
Gwenn searches keys	0.5	95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	30.7	41.3	0.0	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8	0.0	0.0	0.0
Drop dish (No dishwash)	0.0	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	0.0

House B Model HMM Feature Last+Change

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	13.7	42.9	3.6	0.0	0.0	0.0	13.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	24.8	0.0	0.0	0.0
Leaving the house	0.0	92.4	0.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Use toilet	10.3	30.8	54.4	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0
Take shower	1.2	97.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
Brush teeth	25.0	68.1	1.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0
Shaving	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	0.5	12.4	0.1	0.0	0.0	0.0	86.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	34.4	9.8	5.9	0.0	0.0	0.0	43.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0.0	0.0
Prepare brunch	10.5	0.0	0.2	0.0	0.0	0.0	0.0	0.0	52.2	0.0	0.0	0.0	0.0	0.0	14.9	0.0	0.0	0.0	0.0	0.0	0.0	22.1	0.0	0.0	0.0
Prepare dinner	6.3	81.6	2.3	0.0	0.0	0.0	2.5	0.0	5.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Get a drink	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash dishes	42.8	26.6	0.0	0.0	0.0	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	0.0	9.7	0.0	0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0
Answering phone	0.0	3.0	0.0	0.0	0.0	0.0	92.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0
Eat dinner	0.0	12.8	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	31.6	0.0	0.0	0.0
Eat brunch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
Setting up sensors	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan	nan
Unpacking	26.7	6.2	1.1	0.0	0.0	0.0	47.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	0.0	35.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.9	0.0	0.0	0.0
Fasten kitchen camera	0.0	99.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	0.2	1.9	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.7	0.0	0.0	0.0
Gwenn searches keys	0.7	95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	30.7	41.3	0.0	0.0	0.0	0.0	8.5	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8	0.0	0.0	0.0
Drop dish (No dishwash)	0.0	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	0.0

House C Model HMM Feature Change

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	relax
idle	73.2	11.4	0.0	0.0	0.3	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.1	0.0	0.0	14.1
leave house	12.1	87.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eating	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet downstairs	84.3	11.2	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
take shower	66.9	0.0	0.0	0.0	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet upstairs	34.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
shave	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get dressed	93.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take medication	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Lunch	77.6	0.0	0.0	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0
prepare Dinner	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get snack	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get drink	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
relax	79.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4

House C Model HMM Feature Raw

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	relax
idle	0.0	99.8	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
leave house	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eating	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet downstairs	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take shower	0.1	99.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	0.0	98.7	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet upstairs	0.0	97.4	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
shave	0.0	99.8	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get dressed	0.0	99.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take medication	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	0.5	99.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Lunch	1.2	98.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Dinner	0.3	99.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get snack	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get drink	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
relax	0.0	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House C Model HMM Feature Last

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	relax
idle	26.0	4.1	0.0	0.0	1.4	0.0	0.0	0.1	0.5	0.3	0.0	0.0	0.0	15.3	0.0	0.0	52.3
leave house	1.6	85.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0
Eating	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.7	0.0	0.0	70.2
use toilet downstairs	68.8	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7
take shower	47.0	0.0	0.0	0.0	53.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	52.1	0.0	0.0	0.0	18.5	0.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4
use toilet upstairs	73.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
shave	11.2	0.0	0.0	0.0	0.0	0.0	0.0	88.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
get dressed	69.5	0.0	0.0	0.0	15.3	0.0	0.0	0.0	0.0	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take medication	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	75.4	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	22.4	0.0	0.0	0.0
prepare Lunch	94.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0
prepare Dinner	78.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.6	0.0	0.0	0.0
get snack	34.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.5
get drink	83.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	12.4
relax	3.7	0.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	94.8

House C Model HMM Feature Last+Change

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	relax
idle	25.5	4.3	0.0	0.1	1.4	0.0	0.0	0.1	0.5	0.6	0.0	0.0	0.0	15.3	0.0	0.0	52.3
leave house	1.6	85.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0
Eating	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.7	0.0	0.0	70.2
use toilet downstairs	68.8	14.5	0.0	0.0	53.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7
take shower	47.0	0.0	0.0	0.0	20.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	64.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4
use toilet upstairs	73.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
shave	11.2	0.0	0.0	0.0	0.0	0.0	0.0	88.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
get dressed	18.0	0.0	0.0	0.0	15.2	0.0	0.0	0.0	0.0	66.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take medication	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	75.1	0.0	0.0	0.1	1.1	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Lunch	94.3	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5	0.0	0.0	0.0
prepare Dinner	73.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0
get snack	34.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	0.0	0.0	60.5
get drink	83.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	12.4
relax	3.7	0.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	94.8

House A Model SVM Feature Change

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	0.0	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
leave house	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet	0.0	94.1	5.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
take shower	0.0	99.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	0.0	97.4	0.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	0.1	93.3	0.0	0.1	0.0	0.0	3.5	1.9	0.5	0.7
prepare Dinner	0.2	98.8	0.0	0.0	0.0	0.0	0.7	0.2	0.6	0.1
get snack	0.1	93.8	0.0	0.0	0.0	0.0	4.0	1.5	0.0	0.0
get drink	1.1	89.9	0.0	0.0	0.0	0.0	1.8	4.2	0.0	3.0

House A Model SVM Feature Raw

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	7.4	28.6	0.0	0.0	0.0	61.7	0.1	2.2	0.0	0.0
leave house	0.0	66.5	0.0	0.0	0.0	33.5	0.0	0.0	0.0	0.0
use toilet	3.3	15.7	2.1	0.0	0.0	76.4	0.2	2.2	0.0	0.0
take shower	0.0	19.5	0.0	0.0	0.0	80.5	0.0	0.0	0.0	0.0
brush teeth	5.8	74.7	0.1	0.0	0.0	19.3	0.0	0.0	0.0	0.0
go to bed	3.6	14.9	0.0	0.0	0.0	77.6	0.0	3.9	0.0	0.0
prepare Breakfast	6.3	15.5	0.0	0.0	0.0	64.7	4.7	7.4	0.0	1.4
prepare Dinner	2.4	12.2	0.0	0.0	0.0	83.3	1.3	0.4	0.0	0.3
get snack	0.0	12.5	0.0	0.0	0.0	60.4	4.0	22.5	0.0	0.6
get drink	2.7	9.5	0.0	0.0	0.0	59.8	3.3	13.1	0.0	11.6

House A Model SVM Feature Last

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	86.3	6.7	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0
leave house	0.1	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet	79.4	0.5	0.0	0.0	0.0	20.1	0.0	0.0	0.0	0.0
take shower	99.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	84.1	6.2	0.0	0.0	0.0	9.7	0.0	0.0	0.0	0.0
go to bed	6.8	0.0	0.0	0.0	0.0	93.2	0.0	0.0	0.0	0.0
prepare Breakfast	98.8	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
prepare Dinner	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get snack	98.2	1.2	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
get drink	97.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House A Model SVM Feature Last+Change

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	86.1	6.7	0.0	0.0	0.0	7.2	0.0	0.0	0.0	0.0
leave house	0.1	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet	75.0	0.5	5.2	0.7	0.0	18.6	0.0	0.0	0.0	0.0
take shower	98.9	0.1	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	81.6	6.2	0.8	1.8	0.0	9.6	0.0	0.0	0.0	0.0
go to bed	6.8	0.0	0.0	0.0	0.0	93.2	0.0	0.0	0.0	0.0
prepare Breakfast	92.2	0.0	0.0	0.1	0.0	1.2	3.7	1.9	0.5	0.4
prepare Dinner	99.0	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.0	0.0
get snack	92.1	1.2	0.0	0.0	0.0	0.6	4.0	1.5	0.6	0.0
get drink	90.7	2.7	0.0	0.0	0.0	0.0	2.1	4.2	0.0	0.3

House B Model SVM Feature Change

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Unknown	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	0.1	98.7	0.1	0.2	0.0	0.0	0.4	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Leaving the house	0.0	99.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Use toilet	1.4	93.6	2.5	1.6	0.0	0.0	0.2	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Take shower	0.2	81.7	0.3	17.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brush teeth	0.3	95.4	0.8	0.9	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shaving	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	0.0	98.0	0.0	0.0	0.0	0.0	1.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	0.4	93.1	0.2	0.6	0.0	0.0	5.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Prepare brunch	0.8	94.7	0.0	0.0	0.0	0.0	0.0	0.0	2.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare dinner	0.2	97.5	0.1	0.0	0.0	0.0	0.0	0.0	1.1	0.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get a drink	1.9	88.5	0.0	0.0	0.0	0.0	0.0	0.0	8.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Wash dishes	0.1	95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0
Answering phone	0.0	99.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0
Eat dinner	0.0	98.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat brunch	0.0	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Setting up sensors	2.3	94.4	0.0	0.0	0.0	0.0	1.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unpacking	0.5	98.4	0.2	0.0	0.0	0.0	0.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	1.5	95.6	0.0	1.0	0.0	0.0	1.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	0.0	97.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fasten kitchen camera	0.2	98.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	0.0	98.7	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0
Gwenn searches keys	0.0	98.5	0.0	0.0	0.0	0.0	0.6	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	0.3	96.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
Drop dish (No dishwash)	1.1	91.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House B Model SVM Feature Raw

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Unknown	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	2.6	42.6	1.8	2.0	0.0	0.0	18.8	0.0	6.7	4.1	0.0	0.0	20.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.4	0.0
Leaving the house	0.0	58.2	4.8	21.1	0.0	0.0	0.9	0.0	0.0	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0
Use toilet	2.8	65.3	0.0	1.2	0.0	0.0	10.0	0.0	7.5	6.8	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	3.9	0.0
Take shower	4.3	55.0	0.0	21.2	0.0	0.0	0.0	0.0	9.7	1.4	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brush teeth	0.4	66.1	3.1	4.9	0.0	0.0	0.0	0.0	8.4	7.5	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0
Shaving	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	4.7	1.3	0.0	4.1	0.0	0.0	77.5	0.3	0.0	0.0	0.0	0.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	0.1	18.4	0.0	0.7	0.0	0.0	50.1	0.0	2.2	0.4	0.0	0.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0
Prepare brunch	0.9	48.3	0.0	0.9	0.0	0.0	22.9	0.0	10.4	9.6	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare dinner	0.7	36.6	0.0	0.0	0.0	0.0	0.0	0.0	4.4	48.2	0.0	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	7.1	0.0	0.0	0.0
Unknown	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get a drink	9.3	55.5	0.0	0.0	0.0	3.5	5.6	0.0	5.1	17.9	0.0	0.0	2.7	0.0	0.0	1.1	0.0	0.0	2.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Wash dishes	4.6	57.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.6	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.1	0.0	0.0	0.0	1.2	0.0	0.0	0.0
Answering phone	0.0	98.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat dinner	0.0	70.1	0.0	0.0	0.0	0.0	16.1	0.0	16.0	29.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat brunch	2.6	37.2	0.0	26.8	0.0	0.0	28.4	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5	0.0	0.0	0.0
Setting up sensors	0.0	14.0	0.0	39.5	0.0	0.0	99.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unpacking	0.0	0.3	0.0	0.0	0.0	0.0	8.7	0.0	75.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	0.0	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fasten kitchen camera	1.4	20.3	0.0	18.3	0.0	0.0	28.4	0.0	0.0	31.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	0.0	19.8	0.0	3.7	0.0	0.0	4.5	0.0	0.0	12.7	0.0	0.0	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.2	0.0	13.1	0.0
Gwenn searches keys	0.3	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	99.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	1.9	69.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	12.2	0.0	0.0	0.0	0.0	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	2.9	0.0
Drop dish (No dishwash)	0.0	49.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.4	0.0	0.0	14.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House B Model SVM Feature Last

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Unknown	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	22.2	48.9	1.7	0.6	0.0	0.0	11.4	0.0	0.2	0.0	0.0	0.0	0.3	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0
Leaving the house	2.3	90.2	0.0	5.2	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Use toilet	36.7	24.5	21.6	9.2	0.0	0.0	6.3	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
Take shower	0.9	89.5	1.2	5.2	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0
Brush teeth	14.2	68.4	3.4	0.7	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0
Shaving	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	0.8	14.3	0.0	0.0	0.0	0.0	84.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	8.9	12.9	2.4	0.1	0.0	0.0	70.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0
Prepare brunch	8.5	49.0	0.0	0.0	0.0	0.0	4.2	0.0	7.3	0.7	0.0	0.0	0.0	0.0	14.9	9.5	0.0	0.0	1.2	0.0	0.0	0.0	4.7	0.0	0.0	0.0
Prepare dinner	10.8	75.2	2.0	0.0	0.0	0.0	0.0	0.0	2.0	3.4	0.0	0.0	2.9	0.0	1.3	1.6	0.0	0.0	0.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Unknown	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get a drink	5.3	58.9	0.0	0.0	0.0	0.0	5.6	0.0	6.9	4.5	0.0	0.0	0.0	0.0	18.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash dishes	5.5	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	44.2	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0
Answering phone	0.0	95.2	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0
Eat dinner	5.5	12.8	0.0	0.0	0.0	0.0	0.0	0.0	32.7	0.0	0.0	0.0	0.0	0.0	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.0	0.0	0.0
Eat brunch	0.0	70.1	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.3	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	0.0	0.0	0.0
Setting up sensors	30.9	35.4	6.5	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0
Unpacking	17.7	71.8	0.8	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	41.3	45.2	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	35.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.9	0.0	0.0	0.0
Fasten kitchen camera	0.0	99.4	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	0.1	3.2	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.5	0.0	0.0	0.0
Gwenn searches keys	0.7	93.5	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	19.4	33.1	0.0	0.0	0.0	0.0	18.2	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	0.0	0.0	0.0
Drop dish (No dishwash)	12.9	69.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0

House B Model SVM Feature Last+Change

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Unknown	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	22.1	48.6	1.6	0.7	0.0	0.0	11.3	0.0	0.2	0.2	0.0	0.0	0.3	0.0	0.4	0.1	0.0	0.0	0.1	0.0	0.0	0.0	14.3	0.0	0.0	0.0
Leaving the house	2.3	90.1	0.0	5.2	0.0	0.0	2.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Use toilet	38.8	23.2	21.9	10.3	0.0	0.0	3.9	0.1	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
Take shower	0.9	72.7	1.2	22.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0
Brush teeth	14.0	65.9	3.5	1.4	0.0	0.0	2.4	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0
Shaving	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	0.8	14.3	0.0	0.0	0.0	0.0	84.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	9.0	12.4	2.5	0.6	0.0	0.0	69.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0
Prepare brunch	8.9	48.0	0.0	0.0	0.0	0.0	4.2	0.0	7.7	1.7	0.0	0.0	0.0	0.0	14.1	9.2	0.1	0.0	1.3	0.0	0.0	0.0	4.7	0.0	0.0	0.0
Prepare dinner	10.6	75.5	2.1	0.0	0.0	0.0	0.0	0.0	1.7	3.6	0.0	0.0	2.9	0.0	0.8	2.1	0.0	0.0	0.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Unknown	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get a drink	5.3	58.9	0.0	0.1	0.0	0.0	5.6	0.0	11.2	0.5	0.0	0.0	0.0	0.0	14.4	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash dishes	5.3	28.3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	42.1	0.0	9.0	0.1	2.7	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0
Answering phone	0.0	95.2	0.0	0.0	0.0	0.0	0.4	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0
Eat dinner	0.0	18.4	0.0	0.0	0.0	0.0	0.0	0.0	32.7	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.0	0.0	0.0
Eat brunch	0.0	70.3	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.1	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	0.0	0.0	0.0
Setting up sensors	26.8	39.4	6.5	0.0	0.0	0.0	11.0	0.0	0.5	0.0	0.0	0.0	5.3	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0
Unpacking	17.7	71.8	0.8	0.0	0.0	0.0	3.3	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.2	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	41.1	43.0	0.0	1.0	0.0	0.0	1.2	0.0	8.5	2.1	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.9	0.0	0.0	0.0
Fasten kitchen camera	0.2	98.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	0.1	3.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.5	0.0	0.0	0.0
Gwenn searches keys	0.2	93.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	4.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	19.7	32.7	0.1	0.0	0.0	0.0	17.3	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.0	0.0	0.0	0.0	0.0	28.6	0.0	0.0	0.0
Drop dish (No dishwash)	8.6	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0

House C Model SVM Feature Change

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put clothes in washingmachine	relax
idle	0.6	99.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
leave house	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eating	0.9	98.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
use toilet downstairs	2.4	97.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0
take shower	0.5	92.6	0.0	0.0	6.7	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	3.7	92.7	0.0	0.0	3.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet upstairs	3.6	94.9	0.0	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
shave	2.5	93.6	0.0	0.0	3.0	0.0	0.0	0.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	0.0	95.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get dressed	1.4	95.3	0.0	0.0	2.7	0.0	0.0	0.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take medication	1.8	96.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
prepare Breakfast	1.8	95.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	2.2	0.0	0.0	0.0	0.0
prepare Lunch	1.2	96.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.4	0.0	0.0	0.0	0.0
prepare Dinner	0.5	97.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	3.0	0.0	0.0	0.0	0.0
get snack	1.4	95.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.5	0.0	0.0	0.0	0.0
get drink	0.3	96.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.1	0.0	0.0	0.0	0.0
put clothes in washingmachine	0.2	99.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
relax	0.3	99.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House C Model SVM Feature Raw

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put clothes in washingmachine	relax
idle	0.9	70.1	0.0	0.1	0.0	0.0	0.0	0.0	25.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	3.5
leave house	0.0	67.9	0.0	0.0	0.0	0.0	0.0	0.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eating	0.0	69.8	0.0	0.0	0.0	0.0	0.0	0.0	13.4	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	12.6
use toilet downstairs	4.7	43.8	0.0	0.0	0.0	0.0	0.0	0.0	46.5	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	4.2
take shower	0.2	45.5	0.0	0.0	0.0	0.0	0.0	0.0	42.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7
brush teeth	0.9	66.6	0.0	0.0	0.1	0.0	0.0	0.0	29.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
use toilet upstairs	2.7	62.1	0.0	0.0	0.0	0.0	0.0	0.0	32.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
shave	0.5	67.2	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
go to bed	4.5	54.5	0.0	0.0	0.0	0.0	0.0	0.0	41.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
get dressed	2.4	45.7	0.0	0.0	0.0	0.0	0.0	0.0	48.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
take medication	6.2	93.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	4.0	65.0	0.0	0.0	0.0	0.0	0.0	0.0	29.0	0.0	0.0	0.1	0.0	1.7	0.0	0.0	0.0	0.2
prepare Lunch	0.7	86.8	0.0	0.8	0.0	0.0	0.0	0.0	6.4	0.0	0.0	5.4	0.0	1.5	0.0	0.0	0.0	4.7
prepare Dinner	4.1	68.7	0.0	0.0	0.0	0.0	0.0	0.0	19.7	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.8
get snack	0.0	58.8	0.0	0.0	0.0	0.0	0.0	0.0	32.6	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	6.7
get drink	8.6	68.9	0.0	0.0	0.0	0.0	0.0	0.0	18.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	4.1
put clothes in washingmachine	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	98.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
relax	0.1	40.8	0.0	0.0	0.0	0.0	0.0	0.0	38.1	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	20.1

House C Model SVM Feature Last

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put clothes in washingmachine	relax
idle	31.1	8.2	0.0	0.0	1.8	0.0	0.0	0.7	0.4	0.8	0.0	0.0	0.0	5.2	0.0	0.0	0.0	51.9
leave house	0.7	86.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1
Eating	13.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	0.0	0.0	0.0	77.9
use toilet downstairs	69.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	18.7
take shower	30.0	0.0	0.0	0.0	63.0	0.0	0.0	0.2	3.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
brush teeth	33.4	0.6	0.0	0.0	25.0	0.0	0.0	19.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.6
use toilet upstairs	52.4	4.1	0.0	0.0	5.7	0.0	0.0	0.5	25.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5
shave	9.8	5.0	0.0	0.0	22.9	0.0	0.0	54.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
go to bed	0.6	0.0	0.0	0.0	0.1	0.0	0.0	0.1	98.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
get dressed	32.5	1.0	0.0	0.0	21.7	0.0	0.0	0.2	0.0	44.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
take medication	34.7	0.0	0.0	0.0	8.2	0.0	0.0	45.8	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	81.7	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	10.1	0.0	0.0	0.0	6.2
prepare Lunch	79.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	6.7	0.0	0.0	0.0	7.7
prepare Dinner	67.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.1	0.0	0.0	0.0	4.1
get snack	41.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.2	0.0	0.0	0.0	36.7
get drink	41.2	0.0	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.0	0.0	0.0	0.0	21.5
put clothes in washingmachine	89.6	0.0	0.0	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
relax	2.2	0.3	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	96.8

House C Model SVM Feature Last+Change

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put clothes in washingmachine	relax
idle	31.4	8.2	0.0	0.0	1.8	0.0	0.0	0.7	0.4	0.8	0.0	0.0	0.0	5.2	0.0	0.0	0.0	51.6
leave house	0.7	86.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0
Eating	14.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	0.0	77.2
use toilet downstairs	69.2	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.7	0.0	0.0	0.0	18.3
take shower	30.0	0.6	0.0	0.0	63.0	0.1	0.0	0.2	3.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
brush teeth	35.8	0.6	0.0	0.0	25.0	0.0	0.0	18.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2
use toilet upstairs	53.7	4.0	0.0	0.0	5.7	0.0	0.0	0.3	25.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4
shave	11.7	4.9	0.0	0.0	22.8	0.6	0.0	52.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
go to bed	0.6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	98.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
get dressed	32.6	0.9	0.0	0.0	21.7	0.0	0.0	0.2	0.0	44.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
take medication	35.1	0.0	0.0	0.0	8.2	0.0	0.0	45.3	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	80.2	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	1.3	0.0	0.5	0.0	11.1	0.0	0.0	0.0	6.0
prepare Lunch	78.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.5	0.0	7.9	0.0	0.0	0.0	7.5
prepare Dinner	66.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	28.0	0.0	0.0	0.0	4.0
get snack	39.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	21.8	0.0	0.0	0.0	36.2
get drink	39.6	0.0	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	32.2	0.0	0.0	0.0	21.5
put clothes in washingmachine	89.5	0.0	0.0	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
relax	2.4	0.3	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	96.6

House A Model CRF Feature Change

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	0.0	81.0	0.0	0.0	0.0	19.0	0.0	0.0	0.0	0.0
leave house	0.0	81.8	0.0	0.0	0.0	18.2	0.0	0.0	0.0	0.0
use toilet	0.0	72.1	0.0	0.0	0.0	27.9	0.0	0.0	0.0	0.0
take shower	0.0	75.8	0.0	0.0	0.0	24.2	0.0	0.0	0.0	0.0
brush teeth	0.0	76.9	0.0	0.0	0.0	23.1	0.0	0.0	0.0	0.0
go to bed	0.0	76.4	0.0	0.0	0.0	23.6	0.0	0.0	0.0	0.0
prepare Breakfast	0.0	75.2	0.0	0.0	0.0	24.8	0.0	0.0	0.0	0.0
prepare Dinner	0.0	90.8	0.0	0.0	0.0	9.2	0.0	0.0	0.0	0.0
get snack	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get drink	0.0	97.5	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0

House A Model CRF Feature Raw

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	11.0	43.2	0.0	0.0	0.0	45.7	0.0	0.0	0.0	0.0
leave house	12.1	74.6	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0
use toilet	10.9	28.5	0.0	0.0	0.0	60.6	0.0	0.0	0.0	0.0
take shower	6.4	40.7	0.0	0.0	0.0	52.8	0.0	0.0	0.0	0.0
brush teeth	0.8	86.1	0.0	0.0	0.0	13.0	0.0	0.0	0.0	0.0
go to bed	14.4	35.3	0.0	0.0	0.0	50.3	0.0	0.0	0.0	0.0
prepare Breakfast	6.0	44.8	0.0	0.0	0.0	49.2	0.0	0.0	0.0	0.0
prepare Dinner	9.9	46.0	0.0	0.0	0.0	44.2	0.0	0.0	0.0	0.0
get snack	28.6	24.9	0.0	0.0	0.0	46.5	0.0	0.0	0.0	0.0
get drink	5.6	22.9	0.0	0.0	0.0	71.4	0.0	0.0	0.0	0.0

House A Model CRF Feature Last

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	60.8	6.7	0.0	0.0	0.0	32.5	0.0	0.0	0.0	0.0
leave house	0.1	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet	75.6	0.5	0.0	0.0	0.0	24.0	0.0	0.0	0.0	0.0
take shower	99.6	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
brush teeth	68.7	6.2	0.0	0.0	0.0	25.1	0.0	0.0	0.0	0.0
go to bed	4.2	0.0	0.0	0.0	0.0	95.8	0.0	0.0	0.0	0.0
prepare Breakfast	46.3	0.0	0.0	0.0	0.0	53.7	0.0	0.0	0.0	0.0
prepare Dinner	20.0	0.0	0.0	0.0	0.0	80.0	0.0	0.0	0.0	0.0
get snack	23.0	1.2	0.0	0.0	0.0	75.7	0.0	0.0	0.0	0.0
get drink	71.5	2.7	0.0	0.0	0.0	25.8	0.0	0.0	0.0	0.0

House A Model CRF Feature Last+Change

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	86.8	6.7	0.0	0.0	0.0	6.5	0.0	0.0	0.0	0.0
leave house	0.1	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet	90.0	0.5	0.0	0.0	0.0	9.6	0.0	0.0	0.0	0.0
take shower	99.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	93.8	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	6.8	0.0	0.0	0.0	0.0	93.2	0.0	0.0	0.0	0.0
prepare Breakfast	98.8	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
prepare Dinner	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get snack	98.2	1.2	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
get drink	97.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House B Model CRF Feature Change

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Unknown	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leaving the house	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Use toilet	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Take shower	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brush teeth	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shaving	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare brunch	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare dinner	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get a drink	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash dishes	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Answering phone	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat dinner	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat brunch	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Setting up sensors	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unpacking	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fasten kitchen camera	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gwenn searches keys	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drop dish (No dishwash)	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House B Model CRF Feature Raw

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Unknown	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	0.1	75.8	0.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Leaving the house	0.0	99.1	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Use toilet	0.0	87.7	0.0	0.0	0.0	0.0	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Take shower	2.8	87.1	0.0	0.0	0.0	0.0	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brush teeth	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shaving	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	0.0	0.5	0.0	0.0	0.0	0.0	99.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	0.0	35.9	0.0	0.0	0.0	0.0	64.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare brunch	0.0	73.2	0.0	0.0	0.0	0.0	26.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare dinner	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get a drink	0.0	94.4	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash dishes	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Answering phone	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat dinner	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat brunch	0.0	80.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Setting up sensors	0.0	72.3	0.0	0.0	0.0	0.0	27.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unpacking	0.0	0.2	0.0	0.0	0.0	0.0	99.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fasten kitchen camera	0.0	71.6	0.0	0.0	0.0	0.0	28.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	0.0	85.9	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	0.0	0.0	0.0
Gwenn searches keys	0.0	100.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0
Prepare for leaving	0.0	98.7	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drop dish (No dishwash)	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House B Model CRF Feature Last

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Unknown	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	0.0	82.9	0.0	0.0	0.0	0.0	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0
Leaving the house	0.0	92.5	0.0	0.0	0.0	0.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Use toilet	0.0	65.2	0.0	0.0	0.0	0.0	34.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
Take shower	0.0	93.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
Brush teeth	0.0	89.5	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0
Shaving	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	0.0	24.8	0.0	0.0	0.0	0.0	75.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	0.0	67.6	0.0	0.0	0.0	0.0	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0
Prepare brunch	0.0	85.0	0.0	0.0	0.0	0.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0
Prepare dinner	0.0	99.7	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get a drink	0.0	94.4	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash dishes	0.0	95.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0
Answering phone	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat dinner	0.0	68.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.0	0.0	0.0
Eat brunch	0.0	84.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	0.0	0.0	0.0
Setting up sensors	0.0	90.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0
Unpacking	0.0	97.8	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	0.0	84.5	0.0	0.0	0.0	0.0	15.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	0.0	35.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.9	0.0	0.0	0.0
Fasten kitchen camera	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	0.0	54.3	0.0	0.0	0.0	0.0	28.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0
Gwenn searches keys	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	0.0	80.1	0.0	0.0	0.0	0.0	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drop dish (No dishwash)	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House B Model CRF Feature Last+Change

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Unknown	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	0.0	81.2	0.0	0.0	0.0	0.0	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leaving the house	0.0	94.8	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Use toilet	0.0	63.9	0.0	0.0	0.0	0.0	36.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Take shower	0.0	92.6	0.0	0.0	0.0	0.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brush teeth	0.0	90.3	0.0	0.0	0.0	0.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shaving	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	0.0	28.1	0.0	0.0	0.0	0.0	71.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	0.0	53.2	0.0	0.0	0.0	0.0	46.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare brunch	0.0	85.7	0.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare dinner	0.0	99.7	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get a drink	0.0	94.4	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash dishes	0.0	92.9	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Answering phone	0.0	95.6	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat dinner	0.0	35.7	0.0	0.0	0.0	0.0	64.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat brunch	0.0	74.2	0.0	0.0	0.0	0.0	25.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Setting up sensors	0.0	92.4	0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unpacking	0.0	97.8	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	0.0	84.5	0.0	0.0	0.0	0.0	15.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	0.0	35.1	0.0	0.0	0.0	0.0	64.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fasten kitchen camera	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	0.0	46.6	0.0	0.0	0.0	0.0	53.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gwenn searches keys	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	0.0	52.3	0.0	0.0	0.0	0.0	47.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drop dish (No dishwash)	0.0	82.8	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House C Model CRF Feature Change

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put clothes in washingmachine	relax
idle	7.8	41.8	0.0	0.0	0.0	0.0	0.0	0.0	50.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
leave house	23.9	39.6	0.0	0.0	0.0	0.0	0.0	0.0	36.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eating	16.0	50.2	0.0	0.0	0.0	0.0	0.0	0.0	33.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet downstairs	23.0	33.6	0.0	0.0	0.0	0.0	0.0	0.0	43.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take shower	8.9	60.3	0.0	0.0	0.0	0.0	0.0	0.0	30.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	14.5	47.1	0.0	0.0	0.0	0.0	0.0	0.0	38.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet upstairs	13.9	47.2	0.0	0.0	0.0	0.0	0.0	0.0	38.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
shave	12.9	34.2	0.0	0.0	0.0	0.0	0.0	0.0	52.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	20.2	40.2	0.0	0.0	0.0	0.0	0.0	0.0	39.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get dressed	17.8	45.8	0.0	0.0	0.0	0.0	0.0	0.0	36.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take medication	0.0	76.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	28.8	31.6	0.0	0.0	0.0	0.0	0.0	0.0	39.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Lunch	4.7	76.5	0.0	0.0	0.0	0.0	0.0	0.0	18.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Dinner	26.6	33.3	0.0	0.0	0.0	0.0	0.0	0.0	40.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get snack	0.0	27.5	0.0	0.0	0.0	0.0	0.0	0.0	72.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get drink	0.0	30.3	0.0	0.0	0.0	0.0	0.0	0.0	69.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
put clothes in washingmachine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
relax	17.4	29.1	0.0	0.0	0.0	0.0	0.0	0.0	53.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put clothes in washingmachine	relax
idle	16.9	40.1	0.0	0.0	0.0	0.0	0.0	0.0	37.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
leave house	4.8	53.2	0.0	0.0	0.0	0.0	0.0	0.0	41.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Eating	5.7	56.8	0.0	0.0	0.0	0.0	0.0	0.0	30.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
use toilet downstairs	5.8	48.9	0.0	0.0	0.0	0.0	0.0	0.0	39.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
take shower	0.0	26.4	0.0	0.0	0.0	0.0	0.0	0.0	41.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.7
brush teeth	6.5	49.4	0.0	0.0	0.0	0.0	0.0	0.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1
use toilet upstairs	9.0	20.2	0.0	0.0	0.0	0.0	0.0	0.0	57.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9
shave	0.0	48.2	0.0	0.0	0.0	0.0	0.0	0.0	51.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	5.4	31.2	0.0	0.0	0.0	0.0	0.0	0.0	57.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
get dressed	0.0	31.5	0.0	0.0	0.0	0.0	0.0	0.0	60.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
take medication	6.9	60.4	0.0	0.0	0.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7
prepare Breakfast	0.0	68.2	0.0	0.0	0.0	0.0	0.0	0.0	31.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
prepare Lunch	1.7	78.7	0.0	0.0	0.0	0.0	0.0	0.0	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
prepare Dinner	9.1	57.9	0.0	0.0	0.0	0.0	0.0	0.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get snack	12.9	24.0	0.0	0.0	0.0	0.0	0.0	0.0	57.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2
get drink	33.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0	52.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
put clothes in washingmachine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
relax	9.0	43.5	0.0	0.0	0.0	0.0	0.0	0.0	47.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4

House C Model CRF Feature Last

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put clothes in washingmachine	relax
idle	46.1	53.5	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
leave house	10.3	89.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eating	54.7	45.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet downstairs	72.5	27.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take shower	54.1	42.5	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	51.0	49.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet upstairs	44.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	25.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
shave	48.1	51.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	98.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get dressed	52.6	47.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take medication	88.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	90.8	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Lunch	77.1	22.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Dinner	70.7	29.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get snack	52.0	48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get drink	35.1	64.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
put clothes in washingmachine	91.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
relax	35.8	64.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House C Model CRF Feature Last+Change

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put clothes in washingmachine	relax
idle	62.8	33.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
leave house	5.2	86.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5
Eating	70.4	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4
use toilet downstairs	57.8	36.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
take shower	52.7	43.8	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	70.4	23.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7
use toilet upstairs	59.7	14.5	0.0	0.0	0.0	0.0	0.0	0.0	25.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
shave	60.9	39.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	98.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get dressed	60.8	39.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take medication	82.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	85.7	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
prepare Lunch	93.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
prepare Dinner	74.9	24.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get snack	72.3	27.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get drink	70.3	29.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
put clothes in washingmachine	61.1	38.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
relax	52.0	31.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5

House A Model SSVM Feature Change

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
leave house	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet	0.0	97.0	2.9	0.0	0.0	0.1	0.0	0.0	0.0	0.0
take shower	0.0	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Dinner	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get snack	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get drink	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House A Model SSVM Feature Raw

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	13.5	46.1	0.2	0.1	0.0	40.1	0.0	0.1	0.0	0.0
leave house	0.1	80.0	0.3	0.0	0.0	19.6	0.0	0.0	0.0	0.0
use toilet	7.3	41.7	1.0	0.0	0.0	49.8	0.0	0.1	0.1	0.0
take shower	3.1	43.4	1.8	0.7	0.0	50.3	0.0	0.7	0.0	0.0
brush teeth	6.8	79.6	0.1	0.0	1.1	12.4	0.0	0.0	0.0	0.0
go to bed	7.5	38.0	0.0	0.0	0.0	54.4	0.0	0.0	0.0	0.0
prepare Breakfast	6.3	34.2	3.4	0.0	0.1	55.6	0.0	0.0	0.5	0.0
prepare Dinner	16.0	30.2	1.4	0.0	0.3	52.0	0.0	0.0	0.1	0.0
get snack	16.2	29.8	0.0	0.0	0.0	52.9	0.0	0.0	1.0	0.1
get drink	17.9	20.7	0.0	0.0	0.0	61.4	0.0	0.0	0.0	0.0

House A Model SSVM Feature Last

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	85.8	6.7	1.9	0.0	0.0	4.7	0.0	0.9	0.0	0.0
leave house	0.1	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet	86.0	0.5	7.7	0.0	0.0	5.8	0.0	0.0	0.0	0.0
take shower	99.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	85.0	6.2	3.0	0.0	0.0	4.6	0.0	1.3	0.0	0.0
go to bed	4.7	0.0	2.1	0.0	0.0	93.2	0.0	0.2	0.0	0.0
prepare Breakfast	98.6	0.0	0.1	0.0	0.0	1.0	0.0	0.0	0.0	0.0
prepare Dinner	94.7	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0
get snack	98.0	1.2	0.0	0.0	0.0	0.6	0.0	0.2	0.0	0.0
get drink	97.2	2.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0

House A Model SSVM Feature Last+Change

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	86.2	6.7	0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0
leave house	0.1	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet	85.1	0.5	0.1	0.0	0.0	14.3	0.0	0.0	0.0	0.0
take shower	99.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	90.8	6.2	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
go to bed	4.2	0.0	0.0	0.0	0.0	95.8	0.0	0.0	0.0	0.0
prepare Breakfast	98.8	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
prepare Dinner	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get snack	98.2	1.2	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
get drink	97.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House B Model SSVM Feature Change

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Unknown	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	0.2	99.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leaving the house	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Use toilet	0.0	97.8	0.0	1.7	0.0	0.0	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Take shower	1.6	79.4	0.0	18.9	0.6	0.0	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.9	0.0
Brush teeth	5.5	82.0	0.0	1.0	0.2	0.0	0.4	0.0	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shaving	1.3	89.1	0.0	0.0	0.0	0.0	3.2	0.0	0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	0.0	96.7	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	0.0	98.7	0.0	0.6	0.4	0.0	0.2	0.0	0.0	0.6	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Prepare brunch	3.1	91.9	0.0	0.0	0.4	0.0	0.2	0.0	0.0	3.9	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Prepare dinner	4.0	87.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get a drink	1.3	92.0	0.0	0.0	0.5	0.0	0.0	0.0	0.8	4.8	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash dishes	2.8	95.4	0.0	0.0	0.3	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Answering phone	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat dinner	0.1	99.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat brunch	0.0	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Setting up sensors	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unpacking	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	1.4	95.8	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
On phone	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fasten kitchen camera	4.5	90.9	0.0	0.0	0.8	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	0.0	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gwenn searches keys	1.4	94.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	0.7	97.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drop dish (No dishwash)	0.0	95.7	0.0	0.0	1.1	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House B Model SSVM Feature Raw

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Unknown	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	25.0	47.9	0.0	0.1	0.0	0.0	24.0	0.0	0.1	0.2	0.0	0.0	0.1	0.1	0.3	0.2	0.0	0.0	0.4	0.0	0.0	0.0	1.7	0.0	0.0	0.0
Leaving the house	0.0	99.1	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Use toilet	11.7	70.6	0.1	0.7	0.0	0.0	12.3	0.0	0.9	0.2	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.5	0.0	0.0	0.0	0.7	0.0	0.0	0.0
Take shower	16.6	51.7	0.2	20.3	0.0	0.0	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brush teeth	8.0	88.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shaving	0.0	76.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	0.2	0.2	0.0	0.3	0.0	0.0	99.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	6.3	21.2	0.0	0.0	0.0	0.0	64.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	0.3	0.0	0.0	0.0	7.7	0.0	0.0	0.0
Prepare brunch	16.0	39.5	0.0	0.0	0.1	0.0	26.8	0.0	5.5	1.1	0.0	0.0	0.1	0.0	1.5	0.6	0.8	0.0	0.2	0.0	0.0	0.0	2.4	0.0	0.0	0.0
Prepare dinner	32.5	27.1	0.0	0.0	0.1	0.0	0.7	0.0	4.8	19.2	0.0	0.0	0.0	0.9	1.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	11.3	0.0	0.2	0.0
Unknown	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get a drink	16.3	70.7	1.1	0.0	0.0	0.3	5.6	0.0	0.4	0.3	0.0	0.0	0.0	0.8	1.0	2.1	0.0	0.0	2.7	0.0	0.0	0.0	2.7	0.0	0.0	0.0
Wash dishes	21.0	71.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0
Answering phone	0.0	98.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat dinner	29.9	46.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	9.5	22.9	0.0	0.0	0.0	0.0	0.0	0.0	13.7	0.0	0.0	0.0
Eat brunch	6.9	33.4	0.0	0.0	0.0	0.0	20.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0
Setting up sensors	1.7	8.8	0.0	1.5	0.0	0.0	27.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.9	0.0	0.0	0.0	0.0	0.0	15.4	0.0	0.0	0.0
Unpacking	0.0	0.2	0.0	0.0	0.0	0.0	99.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	37.7	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
Fasten kitchen camera	0.0	67.0	0.0	0.0	0.0	1.4	28.4	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	7.2	28.2	0.0	0.0	0.0	0.0	1.7	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.9	0.0	0.0	0.0
Gwenn searches keys	99.0	0.0	0.1	0.0	0.3	0.3	0.6	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	1.1	83.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0
Drop dish (No dishwash)	48.4	47.3	2.2	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House B Model SSVM Feature Last

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Unknown	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	21.8	47.7	2.1	1.2	0.0	0.0	12.1	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0
Leaving the house	0.0	94.5	0.0	4.1	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Use toilet	3.6	12.7	55.4	21.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
Take shower	0.0	22.2	2.7	72.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0
Brush teeth	10.2	70.7	4.4	1.4	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0
Shaving	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	0.0	13.2	0.1	0.0	0.0	0.0	86.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	5.2	9.5	6.1	2.7	0.0	0.0	70.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	14.1	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0
Prepare brunch	8.5	49.8	1.4	0.0	0.0	0.0	4.2	0.0	3.5	0.0	0.0	0.0	2.8	0.0	1.3	3.0	0.0	0.0	0.9	0.0	0.0	0.0	4.7	0.0	0.0	0.0
Prepare dinner	4.8	84.2	0.0	0.0	0.0	0.0	0.9	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Unknown	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get a drink	4.8	59.5	0.5	0.0	0.0	0.0	6.7	0.0	5.1	0.0	0.0	0.0	45.1	0.0	17.1	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash dishes	6.7	31.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	6.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0
Answering phone	0.0	58.4	0.0	0.0	0.0	0.0	37.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat dinner	4.4	12.8	0.0	0.0	0.0	0.0	0.0	0.0	10.2	0.0	0.0	0.0	0.0	0.0	40.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0
Eat brunch	0.0	70.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	3.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.0	0.0	0.0
Setting up sensors	42.4	12.1	6.6	1.7	0.0	0.0	21.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0	15.9	0.0	0.0	0.0
Unpacking	18.3	56.9	0.8	4.4	0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0
Install sensor	41.5	35.5	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	0.0	35.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.9	0.0	0.0	0.0
Fasten kitchen camera	0.0	99.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	0.0	0.0	100.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	0.1	3.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.5	0.0	0.2	0.0
Gwenn searches keys	0.5	94.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	14.2	31.6	5.2	0.0	0.0	0.0	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	28.6	0.0	0.0	0.0
Drop dish (No dishwash)	15.1	67.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0

House B Model SSVM Feature Last+Change

60

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Unknown	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	23.1	46.8	0.9	0.2	0.0	0.0	13.6	0.0	0.2	0.2	0.0	0.0	0.3	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0
Leaving the house	0.0	98.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Use toilet	33.2	34.6	23.6	1.6	0.0	0.0	5.6	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
Take shower	0.8	77.1	1.2	17.7	0.0	0.0	1.6	0.0	0.0	0.1	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0
Brush teeth	14.0	65.8	1.9	0.9	0.0	0.0	1.8	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0
Shaving	3.0	95.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	0.1	12.3	0.0	0.0	0.0	0.0	87.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	10.8	11.4	3.9	0.6	0.0	0.0	67.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	5.6	0.0	0.0	0.0
Prepare brunch	9.4	47.7	0.6	0.0	0.0	0.0	4.2	0.0	10.8	2.4	0.0	0.0	0.0	0.0	10.4	9.8	0.0	0.0	0.1	0.0	0.0	0.0	4.7	0.0	0.0	0.0
Prepare dinner	4.8	82.4	0.0	0.0	0.0	0.0	1.8	0.0	2.1	3.4	0.0	0.0	0.0	0.0	0.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Unknown	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get a drink	6.7	55.2	0.0	0.0	0.0	0.0	6.7	0.0	16.3	3.5	0.0	0.0	2.9	0.0	11.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash dishes	4.7	33.6	0.1	0.0	0.0	0.0	0.0	0.0	3.2	1.9	0.0	0.0	44.4	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0
Answering phone	0.0	39.6	0.0	0.0	0.0	0.0	55.8	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0
Eat dinner	2.3	13.9	0.0	0.0	0.0	0.0	2.2	0.0	16.4	0.1	0.0	0.0	0.0	0.0	33.6	8.6	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.0	0.0	0.0
Eat brunch	0.0	70.4	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	5.4	0.0	2.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	15.9	0.0	0.0	0.0
Setting up sensors	36.5	8.7	1.6	0.0	0.0	0.0	26.1	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.2	3.6	11.7	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0.0	0.0
Unpacking	18.6	52.5	0.4	0.0	0.0	0.0	22.1	0.0	2.6	0.8	0.0	0.0	0.0	0.0	0.0	5.2	11.7	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0
Install sensor	41.9	34.2	0.0	1.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	0.0	35.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	64.9	0.0	0.0	0.0
Fasten kitchen camera	0.0	96.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	60.1	0.0	39.9	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	0.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	96.5	0.0	0.0	0.0
Gwenn searches keys	1.2	92.1	0.0	0.0	0.0	0.0	0.0	0.0	2.6	1.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	20.1	29.7	1.1	0.0	0.0	0.0	19.1	0.0	0.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	0.0	0.0	0.0
Drop dish (No dishwash)	17.2	63.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0

House C Model SSVM Feature Change

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put clothes in washingmachine	relax
idle	0.4	99.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
leave house	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eating	0.2	99.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet downstairs	0.1	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take shower	5.8	91.7	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	2.7	96.3	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.0
use toilet upstairs	1.4	93.1	0.0	0.0	0.1	0.0	0.0	0.0	4.8	0.1	0.3	0.0	0.0	0.0	0.2	0.0	0.2	0.0
shave	1.2	97.4	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.2	0.0	0.2	0.0
go to bed	0.0	80.4	0.0	0.0	0.0	0.0	0.0	0.0	18.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get dressed	2.2	96.6	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take medication	0.0	93.1	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Lunch	0.1	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Dinner	0.1	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get snack	0.2	99.8	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get drink	0.0	100.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
put clothes in washingmachine	0.0	99.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
relax	0.1	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House C Model SSVM Feature Raw

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put clothes in washingmachine	relax
idle	36.6	36.7	0.1	0.0	0.0	0.0	0.2	0.0	22.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.1
leave house	9.4	74.5	0.0	0.0	0.0	0.0	0.0	0.0	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
Eating	21.3	46.3	0.0	0.0	0.0	0.0	0.0	0.0	13.9	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	18.4
use toilet downstairs	20.5	44.2	0.0	0.0	0.1	0.1	0.1	0.0	27.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	6.7
take shower	6.5	69.2	0.0	0.0	0.0	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
brush teeth	6.5	63.4	0.0	0.0	0.0	0.0	0.0	0.0	24.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
use toilet upstairs	8.4	48.3	0.2	0.0	0.2	0.0	0.0	0.0	41.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
shave	6.3	54.7	0.0	0.0	0.4	0.0	0.0	0.2	28.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9
go to bed	5.4	41.6	0.0	0.0	0.9	0.0	0.0	0.0	50.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
get dressed	2.0	62.4	0.0	0.0	0.0	0.0	0.0	0.0	32.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
take medication	31.1	48.4	0.0	0.0	0.0	0.0	0.1	0.0	20.4	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
prepare Breakfast	19.3	53.2	0.0	0.0	0.0	0.0	0.0	0.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
prepare Lunch	16.9	69.6	0.0	0.0	0.0	0.0	0.0	0.0	8.9	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	4.7
prepare Dinner	15.4	72.7	0.0	0.0	1.4	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.2
get snack	23.2	33.2	0.0	0.0	0.0	0.0	0.0	0.0	36.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
get drink	51.4	26.8	0.0	0.0	0.0	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	8.7
put clothes in washingmachine	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.6	0.0
relax	10.9	42.2	0.0	0.0	0.0	0.0	0.0	0.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	34.9

House C Model SSVM Feature Last

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put clothes in washingmachine	relax
idle	85.5	8.5	0.0	0.0	1.8	0.0	0.0	0.4	0.4	0.1	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0
leave house	13.3	86.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eating	91.4	0.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0
use toilet downstairs	87.7	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.3
take shower	32.7	0.0	0.0	0.0	63.4	0.1	0.0	0.2	3.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
brush teeth	62.1	0.6	0.0	0.0	24.5	0.4	0.0	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet upstairs	64.9	4.1	0.0	0.0	4.9	0.0	0.0	0.2	25.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
shave	37.5	5.0	0.0	0.0	22.2	0.0	0.0	33.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
go to bed	1.5	0.0	0.0	0.0	0.1	0.0	0.0	0.0	98.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get dressed	72.0	1.0	0.0	0.0	21.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take medication	52.7	0.0	0.0	0.0	8.2	0.0	0.0	27.8	11.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	85.9	0.0	0.1	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	0.0	0.0	0.0	0.1
prepare Lunch	83.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	12.4	0.0	0.0	0.0	0.0
prepare Dinner	64.5	5.1	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	26.6	0.0	0.0	0.0	0.0
get snack	80.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	0.0	0.0	0.0	0.0
get drink	85.4	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	0.0	0.0	0.0	0.0
put clothes in washingmachine	77.3	0.0	0.0	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	0.0	0.0	0.0	0.0
relax	99.4	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0

House C Model SSVM Feature Last+Change

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put clothes in washingmachine	relax
idle	36.2	8.6	0.0	0.0	1.8	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0	51.8
leave house	0.2	86.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1
Eating	14.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	0.0	0.0	0.0	77.6
use toilet downstairs	70.1	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0
take shower	30.2	0.0	0.0	0.0	63.0	0.0	0.0	0.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
brush teeth	40.2	0.6	0.0	0.0	25.0	0.0	0.0	12.6	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.3
use toilet upstairs	54.2	4.1	0.0	0.0	5.3	0.0	0.0	0.0	25.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9
shave	28.4	5.0	0.0	0.0	23.0	0.0	0.0	36.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6
go to bed	0.6	0.0	0.0	0.0	0.1	0.0	0.0	0.1	98.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
get dressed	44.6	1.0	0.0	0.0	21.8	0.0	0.0	0.0	0.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
take medication	53.3	0.0	0.0	0.0	8.2	0.0	0.0	27.1	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	88.2	0.1	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	6.0
prepare Lunch	83.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	3.2	0.0	0.0	0.0	7.5
prepare Dinner	70.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9	0.0	0.0	0.0	4.0
get snack	42.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.1	0.0	0.0	0.0	36.4
get drink	69.7	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	21.5
put clothes in washingmachine	89.6	0.0	0.0	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
relax	2.7	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	96.8

House A Model NB Feature Change

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	0.0	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
leave house	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet	0.0	94.4	5.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
take shower	0.0	98.8	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	0.0	96.6	1.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	0.2	93.1	0.0	0.0	0.0	0.0	4.8	0.9	0.9	0.3
prepare Dinner	0.3	98.9	0.0	0.0	0.0	0.0	0.5	0.1	0.1	0.1
get snack	0.0	93.2	0.0	0.0	0.0	0.0	4.3	0.6	1.9	0.0
get drink	0.0	90.6	0.0	0.0	0.0	0.0	5.7	0.6	0.0	3.1

House A Model NB Feature Raw

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	1.3	29.4	0.0	0.0	0.0	69.3	0.0	0.0	0.0	0.0
leave house	0.0	68.2	0.0	0.0	0.0	31.8	0.0	0.0	0.0	0.0
use toilet	0.0	23.6	2.0	0.0	0.0	74.4	0.0	0.0	0.0	0.0
take shower	0.0	26.4	0.4	0.0	0.0	73.6	0.0	0.0	0.0	0.0
brush teeth	5.5	73.6	0.0	0.0	0.0	20.5	0.0	0.0	0.0	0.0
go to bed	0.0	14.9	0.0	0.0	0.0	85.1	0.0	0.0	0.0	0.0
prepare Breakfast	5.6	14.8	0.0	0.0	0.0	70.4	2.1	5.7	0.0	1.3
prepare Dinner	2.5	18.2	0.0	0.0	0.0	77.5	0.4	1.3	0.0	0.1
get snack	3.4	11.9	0.0	0.0	0.0	78.0	0.9	5.5	0.2	0.0
get drink	7.5	10.1	0.0	0.0	0.0	61.0	2.8	6.0	0.0	12.6

House A Model NB Feature Last

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	86.1	6.7	0.2	0.0	0.0	7.0	0.0	0.0	0.0	0.0
leave house	0.1	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet	77.8	0.6	0.7	0.0	0.0	20.9	0.0	0.0	0.0	0.0
take shower	99.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	85.0	5.9	0.0	0.0	0.0	9.1	0.0	0.0	0.0	0.0
go to bed	4.3	0.0	0.0	0.0	0.0	95.7	0.0	0.0	0.0	0.0
prepare Breakfast	98.3	0.0	0.0	0.0	0.0	1.2	0.0	0.5	0.0	0.0
prepare Dinner	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get snack	98.1	1.3	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
get drink	96.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House A Model NB Feature Last+Change

	idle	leave house	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink
idle	88.4	6.7	0.2	0.0	0.0	4.7	0.0	0.0	0.0	0.0
leave house	0.1	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet	88.2	0.6	5.8	0.5	0.0	5.0	0.0	0.0	0.0	0.0
take shower	98.8	0.1	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	90.7	5.9	1.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	6.9	0.0	0.0	0.0	0.0	93.1	0.0	0.0	0.0	0.0
prepare Breakfast	91.5	0.0	0.0	0.0	0.0	1.1	1.1	3.3	0.9	2.0
prepare Dinner	98.9	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.1	0.4
get snack	91.3	1.3	0.0	0.0	0.0	0.6	2.8	1.5	1.9	0.6
get drink	87.4	3.1	0.0	0.0	0.0	0.0	0.0	0.6	0.0	8.8

House B Model NB Feature Change

Confusion matrix (values in %). Rows = true activity, columns = predicted activity.

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Unknown	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	0.2	98.7	0.1	0.2	0.0	0.0	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Leaving the house	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Use toilet	0.0	95.6	3.1	1.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Take shower	0.0	80.2	0.9	18.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brush teeth	0.0	97.3	0.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shaving	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	0.0	98.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	0.2	91.7	0.6	0.8	0.0	0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare brunch	0.0	96.1	0.1	0.0	0.0	0.0	0.0	0.0	3.3	0.3	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare dinner	0.0	98.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get a drink	0.0	87.8	0.0	0.0	0.0	0.0	0.0	0.0	9.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash dishes	0.0	95.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Answering phone	0.0	97.8	0.0	0.0	0.0	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0
Eat dinner	0.0	98.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0
Eat brunch	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Setting up sensors	1.0	92.8	0.7	0.2	0.0	0.0	2.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Unpacking	1.7	97.6	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	0.0	94.8	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fasten kitchen camera	0.0	99.4	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	0.0	98.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0
Gwenn searches keys	0.0	98.3	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	0.0	97.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
Drop dish (No dishwash)	0.0	89.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House B Model NB Feature Raw

72

	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Unknown	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)	idle
Leaving the house	52.6	0.0	0.0	0.0	0.1	24.0	0.0	0.0	0.2	2.1	0.0	0.0	0.0	1.1	0.5	0.0	0.1	0.9	0.3	0.0	0.0	0.4	0.1	0.0	0.0	17.6
Use toilet	94.9	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.5	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	3.4
Take shower	74.3	0.0	0.0	0.0	0.0	11.4	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.1	0.0	0.0	0.0	12.4
Brush teeth	74.6	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1
Shaving	82.5	0.0	0.0	0.0	48.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
Go to bed	51.3	0.0	0.0	0.0	0.0	99.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	0.5	0.0	0.0	0.0	0.0	67.5	1.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.2	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.1
Prepare brunch	16.1	0.0	0.0	1.2	0.0	26.4	0.0	1.3	0.1	0.0	0.0	0.3	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5
Prepare dinner	60.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	26.6	0.0	0.1	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	7.6
Unknown	63.6	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	97.4	0.0	0.0	0.0	3.1	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	1.2
Get a drink	2.6	0.0	0.0	2.0	4.0	10.2	0.0	0.0	7.8	0.0	4.1	0.0	0.0	37.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
Wash dishes	73.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	4.1
Answering phone	38.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat dinner	99.0	0.0	0.0	0.0	0.0	20.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6	0.0	0.0	0.0	0.0	24.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat brunch	63.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Setting up sensors	11.4	0.0	0.0	0.0	0.0	36.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.4	24.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
Unpacking	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	63.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	16.7	0.0	0.0	0.0	0.0	30.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
On phone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fasten kitchen camera	50.6	0.0	0.0	0.0	18.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	34.3	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.3	0.1	0.0	0.0	7.6
Gwenn searches keys	17.6	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.7	0.1	0.0	0.0
Prepare for leaving	90.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	1.0	0.0	0.0
Drop dish (No dishwash)	79.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4

House B Model NB Feature Last

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Unknown	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	23.3	52.5	2.0	0.0	0.0	0.0	6.8	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0
Leaving the house	0.0	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Use toilet	9.3	35.7	52.2	0.0	0.0	0.0	1.5	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0
Take shower	0.3	93.6	3.1	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0
Brush teeth	13.7	69.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	0.0	0.0	0.0
Shaving	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	0.3	15.2	0.0	0.0	0.0	0.0	84.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	28.3	12.2	4.7	0.0	0.0	0.0	49.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0
Prepare brunch	7.9	51.5	1.2	0.0	0.0	0.0	4.1	0.0	7.0	0.0	0.0	0.0	0.0	0.0	15.9	8.4	0.0	0.0	0.7	0.0	0.0	0.0	4.3	0.0	0.0	0.0
Prepare dinner	2.3	84.4	0.0	0.0	0.0	0.0	0.0	0.3	2.9	3.8	0.0	0.0	2.7	0.0	1.5	0.5	0.0	0.0	0.6	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Unknown	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get a drink	6.1	51.0	0.9	0.0	0.0	0.0	10.2	0.0	13.3	4.7	0.0	0.0	0.0	0.0	18.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash dishes	2.6	25.8	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0	46.3	0.0	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.0	0.0	0.0
Answering phone	0.0	95.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0
Eat dinner	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.9	0.0	0.0	0.0
Eat brunch	30.6	69.7	7.9	0.0	0.0	0.0	3.8	0.0	3.6	0.0	0.0	0.0	4.2	0.0	4.2	6.5	0.5	0.0	0.0	0.0	0.0	0.0	16.1	0.0	0.0	0.0
Setting up sensors	18.6	35.8	0.8	0.0	0.0	0.0	2.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.5	0.0	0.5	0.0	0.0	0.0	6.5	0.0	0.0	0.0
Unpacking	40.2	71.8	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	0.0	47.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	0.0	28.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.7	0.0	0.0	0.0
Fasten kitchen camera	0.0	99.4	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	0.2	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	1.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.4	0.0	0.0	0.0
Gwenn searches keys	18.7	96.0	5.5	0.0	0.0	0.0	11.2	0.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.2	0.0	0.0	0.0
Prepare for leaving	18.7	35.2	5.5	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.2	0.0	0.0	0.0
Drop dish (No dishwash)	13.8	55.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.0	0.0	0.0	0.0

House B Model NB Feature Last+Change

	idle	Leaving the house	Use toilet	Take shower	Brush teeth	Shaving	Go to bed	Get dressed	Prepare brunch	Prepare dinner	Unknown	Get a drink	Wash dishes	Answering phone	Eat dinner	Eat brunch	Setting up sensors	Unpacking	Install sensor	On phone	Fasten kitchen camera	Wash toaster	Play piano	Gwenn searches keys	Prepare for leaving	Drop dish (No dishwash)
idle	22.9	51.1	2.0	0.2	0.0	0.0	6.7	0.1	0.2	1.0	0.0	0.0	0.3	0.3	0.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	14.3	0.0	0.0	0.0
Leaving the house	0.0	99.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0
Use toilet	7.9	33.8	53.5	1.0	0.0	0.0	1.3	0.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0
Take shower	0.3	74.5	3.1	18.7	0.0	0.0	1.0	0.1	0.0	0.4	0.0	0.0	3.8	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	9.4	0.0	0.0	0.0
Brush teeth	13.2	52.5	4.3	0.7	0.0	0.0	0.0	0.0	0.0	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shaving	0.0	85.9	0.0	0.0	0.0	0.0	0.0	0.2	0.0	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0
Go to bed	0.2	15.0	0.1	0.0	0.0	0.0	84.3	5.5	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0
Get dressed	27.4	8.7	4.7	0.8	0.0	0.0	44.5	0.0	9.3	1.6	0.0	0.0	0.0	1.0	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Prepare brunch	7.7	40.6	0.1	0.0	0.0	0.0	4.1	0.0	3.3	11.2	0.0	0.0	2.7	0.0	1.3	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare dinner	2.3	66.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	21.5	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	7.3	0.0	0.0	0.0
Get a drink	4.1	37.8	0.0	0.0	0.0	0.0	10.2	0.0	18.4	13.3	0.0	0.0	0.0	0.0	13.3	1.0	2.0	0.0	0.6	0.0	0.0	0.0	4.3	0.0	0.0	0.0
Wash dishes	2.4	20.3	0.9	0.0	0.0	0.0	0.4	0.0	0.5	10.2	0.0	0.0	46.3	1.0	11.8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	31.9	0.0	0.0	0.0
Answering phone	0.0	93.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.0	0.0	0.0
Eat dinner	0.0	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	4.2	0.0	54.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0	0.0	0.0
Eat brunch	0.0	69.6	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	1.0	4.2	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Setting up sensors	28.3	21.0	7.9	0.0	0.0	0.0	3.3	1.2	5.2	0.0	0.0	0.2	0.0	0.8	0.3	0.0	15.4	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unpacking	17.8	70.9	0.8	0.2	0.0	0.0	1.7	0.5	6.6	3.3	0.0	0.0	0.0	1.5	0.0	5.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	38.3	41.1	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	0.0	28.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.7	0.0	0.0	0.0
Fasten kitchen camera	0.0	88.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wash toaster	0.2	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Play piano	0.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.4	0.0	0.0	0.0
Gwenn searches keys	17.6	85.2	5.5	0.0	0.0	0.0	0.0	0.9	2.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	0.0	30.4	0.0	0.0	0.0	0.0	11.0	0.0	0.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	28.2	0.0	0.0	0.0
Drop dish (No dishwash)	3.4	37.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.7	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	31.0	0.0	0.0	0.0

House C Model NB Feature Change

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put clothes in washingmachine	relax
idle	0.7	98.9	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
leave house	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
Eating	0.9	98.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
use toilet downstairs	2.3	97.5	0.0	0.0	6.5	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take shower	0.6	92.8	0.0	0.0	3.9	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	3.3	91.6	0.0	0.0	3.0	0.0	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet upstairs	3.1	95.4	0.0	0.0	3.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
shave	1.3	94.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	0.0	95.0	0.0	0.0	3.6	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get dressed	1.1	94.2	0.0	0.0	0.0	0.0	0.0	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take medication	1.4	96.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	1.6	96.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.5	0.0	0.0	0.0	0.0
prepare Lunch	2.1	96.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0
prepare Dinner	0.5	97.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
get snack	2.3	94.2	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0
get drink	0.3	96.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0
put clothes in washingmachine	0.1	99.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
relax	0.3	99.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

House C Model NB Feature Raw

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put clothes in washingmachine	relax
idle	34.5	37.7	0.0	0.0	0.0	0.0	0.0	0.0	23.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	4.1
leave house	6.1	67.6	0.0	0.0	0.0	0.0	0.0	0.0	21.6	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	4.8
Eating	20.0	46.4	0.0	0.0	0.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.8
use toilet downstairs	14.5	34.9	0.0	0.0	0.0	0.1	0.1	0.1	39.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	10.4
take shower	9.2	55.5	0.0	0.0	0.0	0.2	0.1	0.0	27.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
brush teeth	6.6	52.6	0.0	0.0	0.0	0.0	0.7	0.1	31.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
use toilet upstairs	12.3	34.1	0.0	0.0	0.0	0.0	0.1	0.0	45.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2
shave	7.6	56.1	0.0	0.0	0.0	0.0	0.2	0.1	28.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
go to bed	8.1	38.9	0.0	0.0	0.0	0.0	0.0	0.0	50.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
get dressed	0.0	40.1	0.0	0.0	0.0	0.0	0.0	0.1	43.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8
take medication	9.0	72.9	0.0	0.0	0.0	0.0	0.0	0.0	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
prepare Breakfast	6.1	75.0	0.1	0.0	0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0	0.5	1.6	0.0	0.0	0.0	0.8
prepare Lunch	19.4	66.9	0.1	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.1	1.5	0.0	0.0	0.0	3.6
prepare Dinner	9.7	72.7	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	5.5
get snack	38.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	15.2
get drink	36.4	31.5	0.0	0.0	0.0	0.0	0.0	0.0	14.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	13.6
put clothes in washingmachine	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.1	0.0
relax	12.9	30.4	0.0	0.0	0.0	0.0	0.0	0.0	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	42.9

House C Model NB Feature Last

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put clothes in washingmachine	relax
idle	34.3	9.1	0.0	1.1	1.8	0.0	0.0	0.7	0.4	0.2	0.0	0.0	0.0	0.4	0.0	0.0	0.0	51.9
leave house	0.2	86.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0
Eating	13.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	0.0	0.0	0.0	78.7
use toilet downstairs	33.1	10.1	0.0	37.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2
take shower	29.8	0.0	0.0	0.0	63.8	0.0	0.0	0.2	3.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
brush teeth	31.0	1.8	0.0	1.9	26.5	0.0	0.0	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.2
use toilet upstairs	54.3	4.7	0.0	0.0	5.1	0.0	0.0	0.9	24.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3
shave	9.0	4.6	0.0	0.0	22.9	0.0	0.0	55.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
go to bed	0.6	0.1	0.0	0.0	0.1	0.0	0.0	0.1	98.4	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
get dressed	26.4	39.5	0.0	1.1	22.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
take medication	31.2	0.0	0.0	0.0	7.6	0.0	0.0	53.5	7.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	85.7	0.1	0.0	2.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	5.0	0.0	0.0	0.0	5.1
prepare Lunch	82.2	6.7	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	7.0
prepare Dinner	66.8	6.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	0.0	0.0	0.0	3.9
get snack	45.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.1	0.0	0.0	0.0	34.5
get drink	70.5	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	21.5
put clothes in washingmachine	89.1	0.0	0.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
relax	2.1	0.3	0.0	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	96.9

House C Model NB Feature Last+Change

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put clothes in washingmachine	relax
idle	34.0	8.5	0.0	1.1	1.8	0.0	0.1	0.7	0.4	0.8	0.0	0.0	0.0	0.5	0.0	0.0	0.0	51.9
leave house	0.2	86.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0
Eating	13.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	7.9	0.0	0.0	0.0	78.7
use toilet downstairs	32.1	10.0	0.0	38.4	0.0	0.0	0.5	0.0	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.0	0.0	19.2
take shower	29.3	0.0	0.0	0.0	63.8	0.0	1.3	0.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
brush teeth	29.6	0.6	0.0	2.0	26.5	0.0	1.6	18.2	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.2
use toilet upstairs	52.7	3.4	0.0	0.0	5.1	0.0	0.7	0.9	24.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3
shave	8.3	4.6	0.0	0.0	22.9	0.0	0.6	55.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
go to bed	0.6	0.0	0.0	0.0	0.1	0.0	0.7	0.1	98.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
get dressed	25.7	0.9	0.0	1.1	22.2	0.0	0.0	0.2	0.0	48.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
take medication	30.6	0.0	0.0	0.0	7.6	0.0	0.0	53.5	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	82.9	0.0	0.0	2.1	0.6	0.0	0.0	0.0	0.0	1.2	0.0	1.9	0.0	6.0	0.0	0.2	0.0	5.1
prepare Lunch	79.4	5.1	0.0	0.9	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	4.2	0.0	0.2	0.0	7.0
prepare Dinner	65.2	6.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	23.9	0.0	0.1	0.0	3.9
get snack	41.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	20.5	0.0	0.0	0.0	34.5
get drink	67.9	0.0	0.0	0.0	7.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.0	3.3	0.0	0.0	0.0	21.5
put clothes in washingmachine	88.8	0.0	0.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
relax	2.1	0.3	0.0	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	96.9