House A

Model	Feature	Precision	Recall	F-Measure	Accuracy
HMM	Change	30.3	34.4	31.4	87.3
	Raw	30.0	12.6	11.5	56.1
	Last	22.0	21.4	18.7	72.6
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
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
CRF	Change	3.1	10.0	4.8	31.3
	Raw	17.9	15.7	14.9	62.1
	Last	19.4	19.3	14.5	65.9
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
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

House C

		Precision	Recall	F-Measure	Accuracy
Model	Feature				
HMM	Change	20.2	20.2	19.0	73.4
	Raw	8.0	5.8	4.0	46.3
	Last	24.1	25.4	23.4	80.9
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
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
CRF	Change	8.1	6.1	4.5	48.0
	Raw	11.5	10.6	10.4	53.5
	Last	12.8	15.3	13.3	78.2
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
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

House B

| | | Precision | Recall | F-Measure | Accuracy |
Model	Feature				
HMM	Change	16.9	17.1	16.4	77.9
	Raw	5.9	3.2	2.7	47.2
	Last	17.8	15.0	15.0	81.9
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
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
CRF	Change	2.3	3.8	2.9	59.3
	Raw	7.5	7.9	7.7	86.8
	Last	7.5	7.7	7.5	84.4
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
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

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	54.1	13.1	3.4	0.0	0.0	9.6	0.1	19.6	0.0	0.0
leave house	1.9	98.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
use toilet	20.8	1.4	69.2	0.0	0.0	5.9	0.0	2.8	0.0	0.0
take shower	87.9	11.3	0.5	0.0	0.0	0.0	0.0	0.2	0.0	0.0
brush teeth	46.4	11.6	31.7	0.0	0.0	10.2	0.0	0.0	0.0	0.0
go to bed	10.2	2.0	0.0	0.0	0.0	87.3	0.0	0.4	0.0	0.0
prepare Breakfast	44.1	0.0	0.0	0.0	0.0	0.0	7.1	48.8	0.0	0.0
prepare Dinner	46.0	0.0	0.0	0.0	0.0	0.0	25.9	28.0	0.0	0.0
get snack	42.0	1.1	0.0	0.0	0.0	0.0	13.8	43.2	0.0	0.0
get drink	66.4	2.7	0.0	0.0	0.0	0.0	2.2	28.8	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	12.9	78.4	0.0	0.0	0.0	5.5	0.1	3.1	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	12.3	81.8	2.0	0.0	0.0	1.8	0.0	2.1	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	5.9	94.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	3.6	88.4	0.0	0.0	0.0	4.1	0.0	3.9	0.0	0.0
prepare Breakfast	31.9	41.9	0.0	0.0	0.0	9.1	0.5	15.7	0.0	0.9
prepare Dinner	39.0	41.6	0.0	0.0	0.0	15.0	2.4	1.9	0.0	0.2
get snack	9.0	42.0	0.0	0.0	0.0	16.5	0.6	31.9	0.0	0.0
get drink	22.1	71.0	0.0	0.0	0.0	0.6	0.0	2.1	0.0	4.2

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	90.1	7.0	0.0	0.0	0.0	2.9	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	83.4	0.8	0.0	0.0	0.0	15.8	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	84.1	10.7	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0
go to bed	44.3	31.4	0.0	0.0	0.0	24.3	0.0	0.0	0.0	0.0
prepare Breakfast	99.8	0.0	0.0	0.0	0.0	0.2	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	98.8	1.2	0.0	0.0	0.0	0.0	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 HMM 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	56.8	15.8	0.0	4.2	0.0	0.0	11.7	0.0	0.3	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	9.3	0.0	0.0	0.0
Leaving the house	0.2	77.2	0.0	0.0	0.0	0.0	2.4	0.0	0.0	20.2	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	85.3	0.9	0.0	8.2	0.0	0.0	4.6	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	0.4	0.0	0.0	0.0
Take shower	5.7	0.7	0.0	93.3	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	0.2	0.0	0.0	0.0
Brush teeth	53.3	42.5	0.0	0.0	0.0	0.0	2.4	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	1.3	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	2.6	1.7	0.0	0.0	0.0	0.0	93.1	2.0	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
Get dressed	46.2	0.7	0.0	2.5	0.0	0.0	50.6	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
Prepare brunch	29.7	11.6	0.0	0.0	0.0	0.0	4.2	0.0	13.7	34.2	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	0.0	0.0
Prepare dinner	14.9	57.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	13.3	0.0	0.0	11.4	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
Unknown	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	0.0
Get a drink	58.4	10.7	0.0	0.0	0.0	0.0	5.6	0.0	3.2	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0
Wash dishes	22.9	30.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.3	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
Answering phone	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0	0.0
Eat dinner	17.9	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	17.7	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5	0.0	0.0	0.0
Setting up sensors	92.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	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
Unpacking	47.8	48.7	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	0.0	0.0	0.0
Install sensor	49.1	18.7	0.0	17.8	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On phone	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
Fasten kitchen camera	20.4	46.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.7	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
Wash toaster	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	0.0
Play piano	42.6	2.6	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	0.0	54.8	0.0	0.0	0.0
Gwenn searches keys	29.4	70.6	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	0.0	0.0	0.0	0.0	0.0
Prepare for leaving	48.8	36.9	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	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)	74.2	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	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	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	1.4	98.6	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	0.0	0.0	0.0	0.0	0.0
Leaving the house	22.2	77.8	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
Use toilet	4.4	95.5	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
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	1.3	98.7	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	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	1.4	95.1	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	0.0	0.0	0.0
Get dressed	0.0	98.3	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	0.0	0.0	0.0	0.0	0.0	0.0
Prepare brunch	8.4	91.6	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	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	3.5	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	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	15.9	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	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	99.6	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	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	13.1	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	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	15.2	84.8	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
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	2.9	97.1	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	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 HMM 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	22.7	48.9	1.4	0.6	0.0	0.0	11.2	0.0	0.1	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	2.4	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	37.8	25.7	19.4	9.1	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	1.1	90.1	0.6	5.1	0.0	0.0	1.7	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	19.3	69.1	0.3	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	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	14.2	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	13.8	12.1	1.2	0.1	0.0	0.0	67.4	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	5.3	0.0	0.0	0.0
Prepare brunch	11.9	48.4	0.0	0.0	0.0	0.0	4.3	0.0	6.2	0.1	0.0	0.0	2.9	0.0	13.8	10.0	0.0	0.0	0.2	0.0	0.0	0.0	4.7	0.0	0.0	0.0
Prepare dinner	13.0	75.2	2.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	0.0	0.0	0.0	0.0	0.6	1.8	0.0	0.0	0.0	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	17.1	56.3	0.0	0.0	0.0	0.0	5.6	0.0	2.7	4.5	0.0	0.0	0.0	0.0	14.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0
Wash dishes	7.5	27.4	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	43.6	0.0	9.3	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	95.2	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	5.6	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	0.3	70.1	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	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	47.0	20.1	6.4	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0
Unpacking	18.4	71.5	0.4	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	41.3	45.1	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	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	0.6	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	0.0	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	0.2	3.2	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	0.0	0.0
Gwenn searches keys	2.2	93.6	0.0	0.0	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	0.0	0.0
Prepare for leaving	18.9	33.4	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	0.9	0.0	0.0	0.0	0.0	0.0	0.0	28.6	0.0	0.0	0.0
Drop dish (No dishwash)	10.8	72.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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 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	put clothes in washingmachine	relax
idle	84.5	6.6	0.0	0.3	0.8	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	4.2
leave house	19.8	73.1	0.0	0.1	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	2.6
Eating	93.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0
use toilet downstairs	96.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
take shower	40.8	0.0	0.0	0.0	54.7	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
brush teeth	93.4	0.0	0.0	0.0	6.2	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
use toilet upstairs	59.5	0.0	0.0	0.0	7.1	0.0	0.0	0.0	33.4	0.0	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	0.0
go to bed	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get dressed	87.6	0.0	0.0	0.0	12.4	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
take medication	81.8	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
prepare Breakfast	82.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4	0.0	0.0	0.0	0.0
prepare Lunch	75.3	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.7	0.0	0.0	0.0	0.0
prepare Dinner	57.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.7	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	0.0
get drink	95.4	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	4.6
put clothes in washingmachine	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
relax	73.1	15.4	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	10.5

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	put clothes in washingmachine	relax
idle	0.0	99.9	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
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	0.0	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
use toilet downstairs	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
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
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
use toilet upstairs	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
shave	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	0.0	95.5	0.0	0.0	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
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
take medication	0.0	94.2	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
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	0.0	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 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
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	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	0.0
put clothes in washingmachine	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
relax	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

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	put clothes in washingmachine	relax
idle	31.9	8.9	0.0	0.0	1.7	0.0	0.0	0.6	0.4	0.2	0.0	0.0	0.0	5.2	0.0	0.0	0.0	51.2
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	14.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	76.2
use toilet downstairs	69.6	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	18.0
take shower	30.7	0.0	0.0	0.0	62.7	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
brush teeth	42.0	1.8	0.0	0.0	23.6	0.0	0.0	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8
use toilet upstairs	55.9	4.1	0.0	0.0	4.2	0.0	0.0	0.0	25.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9
shave	16.2	7.3	0.0	0.0	20.7	0.0	0.0	51.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
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	72.3	3.8	0.0	0.0	21.5	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take medication	35.1	0.0	0.0	0.0	8.2	0.0	0.0	45.3	11.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	82.4	0.8	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	0.0	0.0	0.0	5.4
prepare Lunch	83.6	4.4	0.0	0.0	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	5.9
prepare Dinner	67.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	0.0	0.0	0.0	4.0
get snack	41.0	8.1	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	30.7
get drink	41.3	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.8	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	2.2	0.3	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	96.7

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	0.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	0.0	97.4	0.0	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	0.1	0.0	0.0	80.5	0.0	0.0	0.0	0.0
brush teeth	5.8	74.7	0.0	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 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	0.0	0.0	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	0.6	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
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	0.4	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	0.0	0.0	0.0	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	0.1	0.0	0.0	0.0	0.1	0.0	0.4	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	0.3	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	1.5	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	0.1	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	0.0	0.0	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	0.3	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	0.4	0.0	0.0	0.0
Setting up sensors	2.3	94.4	0.2	0.0	0.0	0.0	1.1	0.0	0.5	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
Unpacking	0.5	98.4	0.2	0.0	0.0	0.0	0.5	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
Install sensor	1.5	95.6	0.0	1.0	0.0	0.0	1.2	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
On phone	0.0	97.9	0.0	0.0	0.0	0.0	0.0	0.0	0.3	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	0.0	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	0.6	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	3.1	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	0.0	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	0.2	0.0	1.0	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	2.7	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	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	0.1	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	0.0	0.0	0.0	1.1	0.0	0.0	2.1	0.0	0.0	0.0	1.2	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	2.3	0.0	0.0	1.6	0.0	0.0	0.1	0.0	0.0	0.0	0.0	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	0.1	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	0.0	0.0	0.0	29.8	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
Eat brunch	0.0	37.2	0.0	26.8	0.0	0.0	16.1	0.0	16.0	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	0.0	0.0	0.0	0.0
Setting up sensors	2.6	14.0	0.0	39.5	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	15.5	0.0	0.0	0.0
Unpacking	0.0	0.3	0.0	0.0	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
Install sensor	0.0	15.8	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
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	0.6	0.0	1.7	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	0.0	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	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	14.2	68.4	3.4	0.7	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	0.8	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	5.6	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	14.9	9.5	0.0	0.0	0.0	0.0	0.0	0.0	4.7	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	1.3	1.6	0.0	0.0	1.2	0.0	0.0	0.0	0.2	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	0.0	0.0	0.0	0.0	0.5	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	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	7.1	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	4.4	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	0.0	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	6.2	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	0.1	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	0.7	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 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	0.1	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	0.0	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	0.6	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	0.0	0.0	0.3	1.0	0.1	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	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	95.0	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
get dressed	1.4	95.3	0.0	0.0	2.7	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	1.8	96.7	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
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	1.6	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	2.2	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	0.3	0.0	1.4	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	0.8	0.0	3.0	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	1.5	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	0.1	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 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	0.1	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	0.0	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	0.2	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 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
brush teeth	0.0	100.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
go to bed	0.0	99.5	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	0.0	0.0	0.0
prepare Breakfast	98.6	0.0	0.1	0.0	0.0	1.0	0.0	0.2	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 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	1.1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	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	0.2	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 dinner	4.0	87.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	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
Unknown	0.0	100.0	0.0	0.0	0.5	0.0	0.0	0.0	0.8	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	0.0	0.0	0.0	0.0
Get a drink	1.3	92.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	4.8	0.0	0.3	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
Wash dishes	2.8	95.4	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
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	0.1	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	0.0	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	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
Install sensor	1.4	95.8	0.0	1.1	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	0.1	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	0.2	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
Fasten kitchen camera	4.5	90.9	0.0	0.0	0.0	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	0.0	0.0	0.0	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	0.3	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
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	0.1	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
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	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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	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	0.1	0.0	0.0	0.3	0.0	0.0	0.0	2.4	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	8.3	0.0	0.0	0.2	0.0	0.0	0.0	11.3	0.0	0.2	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	0.6	0.0	0.0	0.1	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	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	1.2	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	13.7	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	16.0	0.0	0.0	0.0
Eat dinner	29.9	46.8	0.0	0.0	0.0	0.0	20.0	0.0	0.8	0.1	0.0	0.0	0.0	0.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4	0.0	0.0	0.0
Eat brunch	6.9	33.4	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	22.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Setting up sensors	1.7	8.8	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	44.9	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	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	0.0	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	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	59.9	0.0	0.0	0.0
Gwenn searches keys	99.0	0.0	0.0	0.0	0.3	0.3	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
Prepare for leaving	1.1	83.2	0.1	0.0	0.0	0.0	0.6	0.0	0.0	1.8	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	0.0	0.0	0.0	0.0	6.7	0.0	5.1	0.0	0.0	0.0	0.0	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	0.5	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	45.1	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	5.5	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	0.0	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	1.7	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	4.4	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	0.0	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	0.0	0.0	0.0	0.0
Play piano	0.5	3.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	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 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	4.8	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	18.7	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	6.0	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	0.0	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	0.0	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	0.0	0.0	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	0.2	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
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	0.2	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	0.0	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	0.0	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	0.2	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	0.0	0.0	0.0	0.0	4.7
prepare Dinner	15.4	72.7	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.1	2.2
get snack	23.2	33.2	0.0	0.0	1.4	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	0.0	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	5.2	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	0.0	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	5.4	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	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	9.3	0.0	0.0	0.0	0.0
put clothes in washingmachine	77.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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 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	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0
leave house	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0
use toilet	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0
take shower	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0
brush teeth	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0
go to bed	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0
prepare Breakfast	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0
prepare Dinner	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0
get snack	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0
get drink	0.0	0.0	0.0	0.0	0.0	100.0	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	9.4	28.8	0.0	0.0	0.0	61.7	0.0	0.0	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	3.8	11.9	0.0	0.0	0.0	84.3	0.0	0.0	0.0	0.0
take shower	0.0	12.5	0.0	0.0	0.0	87.5	0.0	0.0	0.0	0.0
brush teeth	5.9	74.2	0.0	0.0	0.0	19.9	0.0	0.0	0.0	0.0
go to bed	3.6	14.9	0.0	0.0	0.0	81.5	0.0	0.0	0.0	0.0
prepare Breakfast	0.0	19.1	0.0	0.0	0.0	80.9	0.0	0.0	0.0	0.0
prepare Dinner	5.9	12.2	0.0	0.0	0.0	81.9	0.0	0.0	0.0	0.0
get snack	13.5	13.9	0.0	0.0	0.0	72.5	0.0	0.0	0.0	0.0
get drink	4.7	15.2	0.0	0.0	0.0	80.1	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	90.6	6.7	0.0	0.0	0.0	2.7	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	97.3	0.5	0.0	0.0	0.0	2.2	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	97.4	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0
prepare Breakfast	99.8	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
prepare Dinner	99.9	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
get snack	98.8	1.2	0.0	0.0	0.0	0.0	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
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
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
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	9.1	66.9	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	0.0	0.0	0.0	0.0
Leaving the house	2.7	96.4	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	8.6	79.1	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	8.7	81.2	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	7.1	92.9	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
Shaving	20.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.4	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	3.8	32.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0
Prepare brunch	9.7	63.5	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	8.9	91.1	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	0.0	0.0	0.0
Unknown	20.1	79.9	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
Get a drink	10.1	84.3	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	10.2	89.8	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
Answering phone	1.5	98.5	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	0.0	0.0	0.0	0.0	0.0
Eat dinner	6.0	94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	12.0	68.1	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	72.1	0.0	0.0	0.0	0.0	27.9	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
Unpacking	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	0.0
Install sensor	9.9	90.1	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	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	20.3	79.7	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	0.0	0.0	0.0	0.0
Play piano	26.8	68.7	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	0.0	0.0	0.0	0.0
Gwenn searches keys	20.1	79.9	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
Prepare for leaving	4.7	94.7	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)	15.1	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	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	13.7	45.2	0.0	0.0	0.0	0.0	41.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	97.0	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	0.0
Use toilet	1.1	61.0	0.0	0.0	0.0	0.0	37.9	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
Take shower	1.3	96.4	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
Brush teeth	1.3	89.0	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	10.7	0.0	0.0	0.0	0.0	89.3	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
Get dressed	0.0	22.5	0.0	0.0	0.0	0.0	77.5	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
Prepare brunch	8.9	66.1	0.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	90.6	0.0	0.0	0.0	0.0	9.4	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
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	73.9	0.0	0.0	0.0	0.0	26.1	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
Wash dishes	7.1	76.0	0.0	0.0	0.0	0.0	16.9	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
Answering phone	4.4	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	0.0	0.0	0.0	0.0	0.0
Eat dinner	29.2	62.8	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat brunch	15.9	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	0.0	0.0	0.0	0.0
Setting up sensors	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	0.0
Unpacking	0.0	48.7	0.0	0.0	0.0	0.0	51.3	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
Install sensor	0.0	41.0	0.0	0.0	0.0	0.0	59.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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
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	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
Play piano	96.4	3.6	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
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	3.5	45.2	0.0	0.0	0.0	0.0	51.3	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
Drop dish (No dishwash)	17.2	82.8	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

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	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
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	0.0	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
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	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
brush teeth	0.0	98.0	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
use toilet upstairs	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
shave	0.0	89.8	0.0	0.0	0.0	0.0	0.0	0.0	10.2	0.0	0.0	0.0	0.0	0.0	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
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
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	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	0.0	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 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
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	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	0.0
put clothes in washingmachine	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
relax	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

House C Model CRF 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	36.2	27.6	0.0	0.0	0.0	0.0	0.0	0.0	34.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
leave house	10.4	54.3	0.0	0.0	0.0	0.0	0.0	0.0	35.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eating	23.5	34.0	0.0	0.0	0.0	0.0	0.0	0.0	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4
use toilet downstairs	18.7	42.3	0.0	0.0	0.0	0.0	0.0	0.0	37.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
take shower	8.8	49.5	0.0	0.0	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	4.5
brush teeth	6.3	38.1	0.0	0.0	0.0	0.0	0.0	0.0	51.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
use toilet upstairs	12.8	8.8	0.0	0.0	0.0	0.0	0.0	0.0	76.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
shave	0.0	59.6	0.0	0.0	0.0	0.0	0.0	0.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3
go to bed	6.8	12.2	0.0	0.0	0.0	0.0	0.0	0.0	78.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
get dressed	2.0	32.2	0.0	0.0	0.0	0.0	0.0	0.0	52.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6
take medication	76.0	0.0	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	9.9	33.7	0.0	0.0	0.0	0.0	0.0	0.0	56.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Lunch	20.0	66.9	0.0	0.0	0.0	0.0	0.0	0.0	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Dinner	10.2	59.7	0.0	0.0	0.0	0.0	0.0	0.0	24.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
get snack	40.2	11.8	0.0	0.0	0.0	0.0	0.0	0.0	42.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
get drink	48.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	40.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7
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	16.0	35.9	0.0	0.0	0.0	0.0	0.0	0.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.1

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	91.6	7.9	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	13.8	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	0.0
Eating	99.8	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 downstairs	88.7	11.3	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
take shower	96.5	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
brush teeth	99.4	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
use toilet upstairs	70.0	4.1	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	95.0	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
go to bed	1.6	0.0	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	99.0	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
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	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
prepare Lunch	95.6	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
prepare Dinner	99.1	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
get snack	97.9	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
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	0.0
put clothes in washingmachine	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
relax	99.7	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	0.0	0.0

House A Model HMM Feature Change

	idle	leave house	Eating	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink	put items in dishwasher	unload dishwasher	store groceries	put clothes in washingmachine	unload washingmachine	receive guest
idle	40.4	18.8	0.0	2.7	0.0	0.0	9.2	0.0	28.9	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eating	0.0	0.0	0.0	0.0	0.0	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	18.8	1.4	0.0	68.7	0.0	0.0	9.1	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take shower	33.9	10.5	0.0	0.0	54.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
brush teeth	44.3	17.2	0.0	38.4	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
go to bed	10.4	50.7	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	0.0
prepare Breakfast	0.2	0.0	0.0	0.0	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
prepare Dinner	0.0	3.7	0.0	0.0	0.0	0.0	45.8	0.0	50.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get snack	34.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	64.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get drink	62.3	4.9	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
put items in dishwasher	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
unload dishwasher	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
store groceries	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
unload washingmachine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
receive guest	0.0	0.0	0.0	0.0	0.0	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 A Model HMM Feature Raw

	idle	leave house	Eating	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink	put items in dishwasher	unload dishwasher	store groceries	put clothes in washingmachine	unload washingmachine	receive guest
idle	10.3	55.5	0.0	0.0	0.0	0.0	23.8	0.0	10.4	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	0.0	0.0	0.0	0.0	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	7.7	67.3	0.0	4.6	0.0	0.0	20.5	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
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
go to bed	0.0	85.4	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	0.0	0.0
prepare Breakfast	29.8	24.7	0.0	0.0	0.0	0.0	22.4	0.0	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Dinner	28.2	62.7	0.0	0.0	0.0	0.0	0.4	0.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get snack	4.7	33.2	0.0	0.0	0.0	0.0	30.7	0.0	31.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get drink	19.4	75.7	0.0	0.0	0.0	0.0	0.7	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
put items in dishwasher	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
unload dishwasher	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
store groceries	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
unload washingmachine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
receive guest	0.0	0.0	0.0	0.0	0.0	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 A Model HMM Feature Last

	idle	leave house	Eating	use toilet	take shower	brush teeth	go to bed	prepare Breakfast	prepare Dinner	get snack	get drink	put items in dishwasher	unload dishwasher	store groceries	put clothes in washingmachine	unload washingmachine	receive guest
idle	81.5	9.9	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eating	0.0	0.0	0.0	0.0	0.0	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	97.8	1.0	0.0	0.0	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	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	83.4	16.6	0.0	0.0	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
prepare Breakfast	49.6	45.8	0.0	0.0	0.0	0.0	0.0	0.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Dinner	82.2	0.0	0.0	0.0	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
get snack	92.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
get drink	65.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
put items in dishwasher	90.9	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
unload dishwasher	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
store groceries	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
unload washingmachine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
receive guest	0.0	0.0	0.0	0.0	0.0	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 Change

	Water baobab	Drop dish (No dishwash)	Prepare for leaving	Gwenn searches keys	Play piano	Wash toaster	Fasten kitchen camera	On phone	Install sensor	Unpacking	Setting up sensors	Eat brunch	Eat dinner	Answering phone	Wash dishes	Get a drink	Prepare dinner	Prepare brunch	Get dressed	Go to bed	Shaving	Brush teeth	Take shower	Use toilet	Leaving the house	idle
the house	0.0	0.0	0.0	0.0	18.6	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	10.1	0.0	0.0	0.1	0.0	34.1	36.2
et	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	8.2	0.0	0.0	0.0	0.0	91.3	0.5
ower	0.0	0.0	0.0	0.0	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	6.7	0.0	0.0	18.9	0.0	5.7	66.0
eeth	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	93.4	0.0	2.3	3.7
ed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.4	20.6
ssed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	82.1	0.0	0.0	0.0	0.0	100.0	0.0
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	67.1	0.0	0.0	0.0	0.0	0.0	0.0	8.6	7.0
dinner	0.0	0.0	0.0	0.0	32.7	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.0	0.3	0.0	0.0	0.0	0.0	11.7	87.4
rink	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	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
shes	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	0.0	80.5	6.7
ng phone	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	92.6	0.0	0.0	0.0	0.0	0.0	0.0
ner	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	40.1	0.0
nch	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
up sensors	0.0	0.0	0.0	0.0	100.0	0.0	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	62.8	0.0
ng	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	nan
ensor	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
tchen camera	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
aster	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	92.4	0.0
no	0.0	0.0	0.0	0.0	77.2	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	0.8	22.0
searches keys	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	5.8	0.0	0.0	0.0	0.0	0.0	0.0	49.3	36.8
for leaving	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
sh (No dishwash)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
aobab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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)	Water baobab
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	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	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	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	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	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	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	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	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	4.6	95.4	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	0.0
Answering phone	0.0	99.9	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
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	0.0	0.0
Eat brunch	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
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	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	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	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	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	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	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
Water baobab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

The following confusion matrix (values in %) appears rotated on the page. Rows are the true classes; columns are the predicted classes.

True \ Predicted	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)	Water baobab
idle	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	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	0.0
Use toilet	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	0.0
Take shower	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	0.0
Brush teeth	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	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	0.5	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	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	0.0
Prepare brunch	10.5	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	0.0
Prepare dinner	6.3	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	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	0.0
Wash dishes	52.5	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	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	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	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	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	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	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	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	0.0
Fasten kitchen camera	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	0.0
Wash toaster	0.0	0.0	100.0	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	0.0
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	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	4.5	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	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	1.6	0.0	0.0	0.0	0.0	0.0	0.0	17.8	0.0	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	0.0
Water baobab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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 Change

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	take bath	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put items in dishwasher	unload dishwasher	store groceries	Grooming (Collection of 6,9,12,22)	put clothes in washingmachine	unload washingmachine	receive guest	watch tv	read paper	relax	Unknown
	73.2	11.4	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.8	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	14.1	0.0
	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
stairs	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	0.0	0.0
	84.3	11.2	0.0	0.0	33.1	0.0	0.0	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	2.7	0.0
irs	66.9	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	34.8	0.0	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	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
st	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	0.0	0.0
	2.9	0.0	0.0	19.7	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	77.6	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	2.8	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
	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	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	0.0	0.0	0.0	0.0
hwasher	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
er	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ection of 6,9,12,22)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
vashingmachine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
machine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	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	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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 Raw

	idle	leave house	Eating	use toilet downstairs	take shower	brush teeth	use toilet upstairs	take bath	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put items in dishwasher	unload dishwasher	store groceries	Grooming (Collection of 6,9,12,22)	put clothes in washingmachine	unload washingmachine	receive guest	watch tv	read paper	relax	Unknown
leave 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	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	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	0.0	0.0
brush teeth	0.1	99.7	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	0.0	0.0
use toilet upstairs	0.0	98.7	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
take bath	0.0	97.4	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
shave	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	0.0	0.0	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	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	0.0	0.0
take medication	0.5	99.5	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Breakfast	1.2	100.0	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	0.0	0.0	0.0	0.0	0.0	0.0
prepare Lunch	0.3	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
prepare Dinner	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	0.0	0.0
get snack	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
put items in dishwasher	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
unload dishwasher	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
store groceries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grooming (Collection of 6,9,12,22)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
unload washingmachine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
receive guest	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	0.0	0.0
read paper	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	take bath	shave	go to bed	get dressed	take medication	prepare Breakfast	prepare Lunch	prepare Dinner	get snack	get drink	put items in dishwasher	unload dishwasher	store groceries	Grooming (Collection of 6,9,12,22)	put clothes in washingmachine	unload washingmachine	receive guest	watch tv	read paper	relax	Unknown
	26.0	4.1	0.0	0.0	1.4	0.0	0.0	0.0	0.1	0.5	0.3	0.0	0.0	0.0	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.3	0.0
	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	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	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.2	0.0
	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	0.0
	47.0	0.0	0.0	0.0	53.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	52.1	0.0	0.0	0.0	18.5	0.0	0.0	0.0	0.0	26.9	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
	73.1	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	0.0	0.0	0.0	0.0	0.0	15.4	0.0
	0.0	0.0	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	0.0	0.0	0.0	0.0	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	0.0	96.7	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	3.0	0.0
	0.3	0.0	0.0	0.0	15.3	0.0	0.0	0.0	0.0	0.0	15.2	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
	69.5	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	22.4	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
	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	5.7	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
	75.4	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	21.6	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
	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	78.4	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	3.7	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
	34.2	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	0.0	0.0	0.0	60.5	0.0
	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	0.0	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	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.8	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	0.0	0.0	0.0	0.0	0.0

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 B Model NB 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	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	0.9	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
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	0.0	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
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	0.4	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prepare brunch	0.0	96.1	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.3	0.0	0.1	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
Prepare dinner	0.0	98.2	0.1	0.0	0.0	0.0	0.0	0.0	1.0	0.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.7	0.0	0.0	0.2	0.7	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	0.0	97.6	0.2	1.2	0.0	0.0	1.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	1.7	94.8	0.0	0.0	0.0	0.0	1.5	0.0	0.5	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
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	0.0	0.0	0.6	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	0.4	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

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

	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	17.6	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
Leaving the house	3.4	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
Use toilet	12.4	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
Take shower	16.1	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	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brush teeth	4.9	82.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shaving	0.0	51.3	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Go to bed	0.1	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	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Get dressed	6.5	16.1	0.0	0.0	1.2	0.0	67.5	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	8.5	0.0	0.0	0.0
Prepare brunch	7.6	60.0	0.0	0.0	0.1	0.0	26.4	0.0	1.3	0.1	0.7	0.1	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Prepare dinner	1.2	63.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	26.6	0.0	0.1	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Unknown	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.4	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
Get a drink	0.0	73.5	0.0	0.0	2.0	4.0	10.2	0.0	0.0	0.0	0.0	4.1	0.0	0.0	3.1	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
Wash dishes	4.1	38.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	0.0	0.0	11.8	0.0	37.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.0	0.0
Answering phone	0.0	99.0	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
Eat dinner	0.0	63.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eat brunch	0.0	63.4	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
Setting up sensors	0.0	11.4	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	59.4	0.0	0.0	24.1	0.0	0.0	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	0.0	0.2	24.0	63.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	2.8	16.7	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	80.5	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	100.0	0.0	0.0	0.0	0.0	0.0	0.0
Fasten kitchen camera	0.0	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
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	7.6	34.3	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	0.0	0.0	0.0	0.0	0.0	56.3	0.0	0.0	0.0
Gwenn searches keys	0.0	17.6	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	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.7	0.0	0.0
Prepare for leaving	0.0	90.3	0.0	0.0	0.0	1.8	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	6.6	0.1	0.0	0.0
Drop dish (No dishwash)	3.4	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

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	0.1	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	0.3	0.0	0.0	0.0	0.0	15.9	8.4	0.0	0.0	0.7	0.0	0.0	0.0	5.7	0.0	0.0	0.0
Prepare brunch	7.9	51.5	0.1	0.0	0.0	0.0	4.1	0.0	7.0	3.8	0.0	0.0	0.0	0.0	1.5	0.5	0.0	0.0	0.6	0.0	0.0	0.0	4.3	0.0	0.0	0.0
Prepare dinner	2.3	84.4	1.2	0.0	0.0	0.0	0.0	0.0	2.9	4.7	0.0	0.0	2.7	0.0	18.4	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	10.2	0.0	13.3	0.0	0.0	0.0	0.0	0.0	12.1	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	0.9	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0	46.3	0.0	0.0	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	0.0	69.7	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	4.2	6.5	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.0	0.0	0.0
Setting up sensors	30.6	35.8	7.9	0.0	0.0	0.0	3.8	0.0	5.2	0.0	0.0	0.0	4.2	0.0	5.4	0.0	0.5	0.0	0.0	0.0	0.0	0.0	6.5	0.0	0.0	0.0
Unpacking	18.6	71.8	0.8	0.0	0.0	0.0	2.0	0.0	6.6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.5	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Install sensor	40.2	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	0.0	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	0.2	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	0.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	96.4	0.0	0.0	0.0
Gwenn searches keys	1.7	96.0	0.0	0.0	0.0	0.0	0.0	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	0.0	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 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	0.0	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	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
take shower	0.6	92.8	0.0	0.0	6.5	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
brush teeth	3.3	91.6	0.0	0.0	3.9	0.0	0.0	1.2	0.1	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	0.3	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
shave	1.3	94.1	0.0	0.0	3.0	0.0	0.0	1.7	0.8	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	0.1	5.0	1.0	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	3.6	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
take medication	1.4	96.5	0.3	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
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	0.1	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	0.0	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	0.0
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

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	34.5	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	0.1	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	0.7	0.0	27.3	0.0	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	0.1	0.0	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	0.2	0.1	45.8	0.2	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	0.0	0.0	28.0	0.0	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	0.1	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	0.0	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	1.6	0.0	0.0	0.0	0.7
prepare Breakfast	6.1	75.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0	0.5	1.5	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	10.3	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	1.8	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	0.0	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	0.0	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	0.1	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	0.4	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	0.0	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	10.2	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	0.0	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	1.2	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