Friday, April 3, 2020

The particle of the case of the partition of the case Peanut Butter Recall

Selver Carrie Language Salva Some Language Control

Some containers of Gif brand peanut butter were found to have some crazy bad thing in them. We're your gifs to whence they issuing a broad sweeping came.

recall to ensure that everyone is as safe as possible. Please return

foll imp

The that

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Peanut Butter Recall

Some containers of Gif recall to ensure brand peanut butter were found to have some crazy possible. Please return bad thing in them. We're your gifs to whence they issuing a broad sweeping

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Contaminated



Creamy Goodness

What people are returning:

























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14 - Contaminated



Creamy Goodness

What people are returning:























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Peanut Butter Recall

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foll



14 - Contaminated



- Creamy Goodness

What people are returning:































Peanut Butter Contamination Confusion Matrix

	Not Recalled	Recalled
Not Contaminated		
Contaminated		14





Was this 'precise'?

	Not Recalled	Recalled
Not Contaminated		
Contaminated		14





In ML, precision is: TP / (TP + FP)

	Not Recalled	Recalled
Not Contaminated		
Contaminated		14

TP = True Positive FP = False Positive

aka all predicted positives



7 = 33%

In ML, precision is: TP / (TP + FP)

	Not Recalled	Recalled
Not Contaminated		
Contaminated		14

TP = True Positive FP = False Positive







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	Not Recalled	Recalled
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In ML, precision is: TP / (TP + FP)

	Not Recalled	Recalled
Not Contaminated		
Contaminated		14

TP = True Positive = 14 FP = False Positive





In ML, precision is: TP / (TP + FP)

	Not Recalled	Recalled
Not Contaminated		7
Contaminated		14

TP = True Positive = 14 FP = False Positive = 7





In ML, precision is: TP / (TP + FP)

	Not Recalled	Recalled
Not Contaminated		
Contaminated		14

precision = 14/(14+7) = 66%





Was this a successful recall?

	Not Recalled	Recalled
Not Contaminated		
Contaminated		14





In ML, recall is: TP / (TP + FN)

	Not Recalled	Recalled
Not Contaminated		
Contaminated		14

TP = True Positive FN = False Negative



aka all actual positives





7 = 33%

In ML, recall is: TP / (TP + FN)

	Not Recalled	Recalled
Not Contaminated		
Contaminated		14

TP = True Positive FN = False Negative





In ML, recall is: TP / (TP + FN)

	Not Recalled	Recalled
Not Contaminated		
Contaminated		14

TP = True Positive = 14 FN = False Negative





In ML, recall is: TP / (TP + FN)

	Not Recalled	Recalled
Not Contaminated		
Contaminated		14

TP = True Positive = 14 FN = False Negative = 0





In ML, recall is: TP / (TP + FN)

	Not Recalled	Recalled
Not Contaminated		
Contaminated		14

TP = True Positive = 14 FN = False Negative = 0

recall = 14/(14+0) = 100%





precision = 66% recall = 100%

	Not Recalled	Recalled
Not Contaminated		
Contaminated		14

What are some example machine learning applications where you'd prefer:

<u>precision</u> > <u>recall</u>

What are some example machine learning applications where you'd prefer:

precision < recall

medicine - detecting a disease - prefer recall

- * Implication of a false negative:
 - * Send a sick person home thinking they're healthy
- * Implication of a false positive:
 - * Patient comes in for a second test to confirm result

	Predicted no disease	Predicted disease
Actually disease free	10	40
Actually has disease	3	100

autopiloted car - detecting a green light - prefer precision

- * Implication of a false negative:
 - * Car doesn't move when light turns green
- * Implication of a false positive:
 - * Car takes off into a potentially busy intersection

	Predicted no green light	Predicted green light
Actually yellow/red light	10	3
Actually green light	40	100