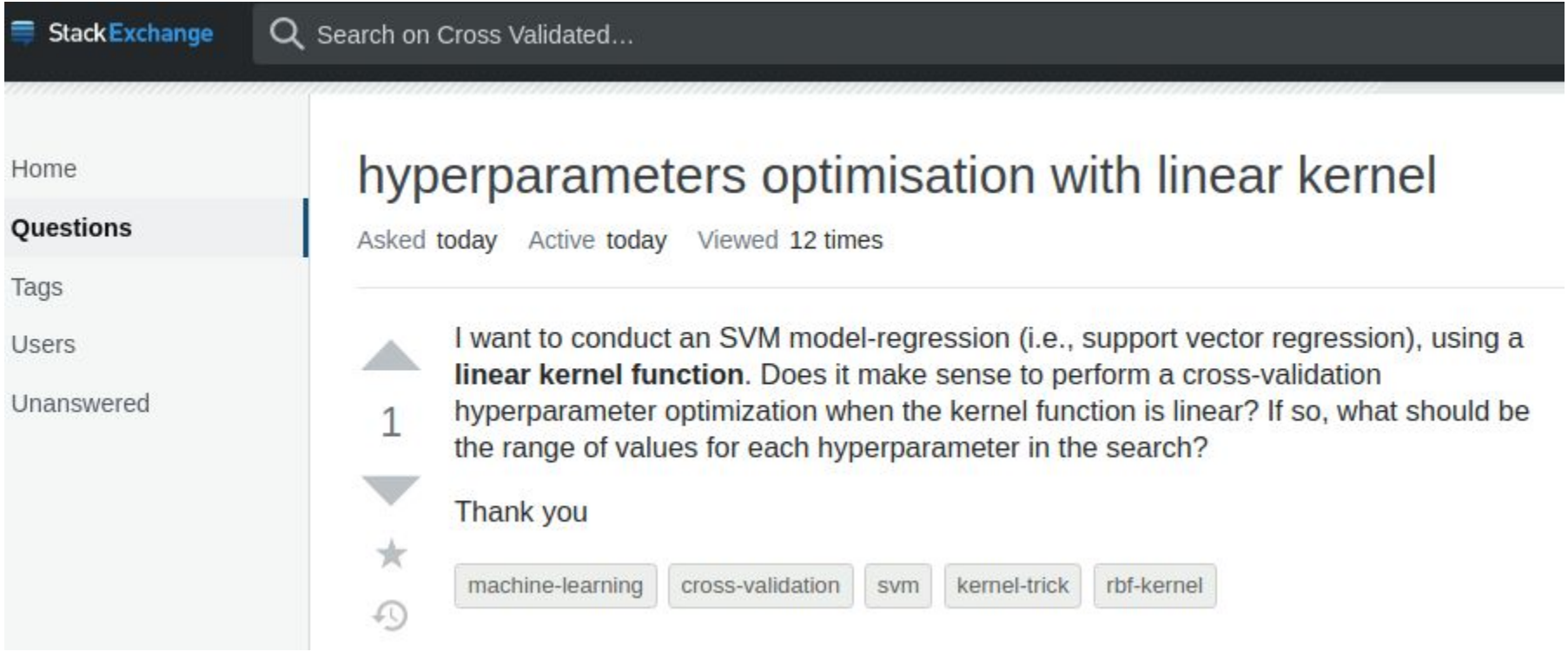
Auto-Tagging System

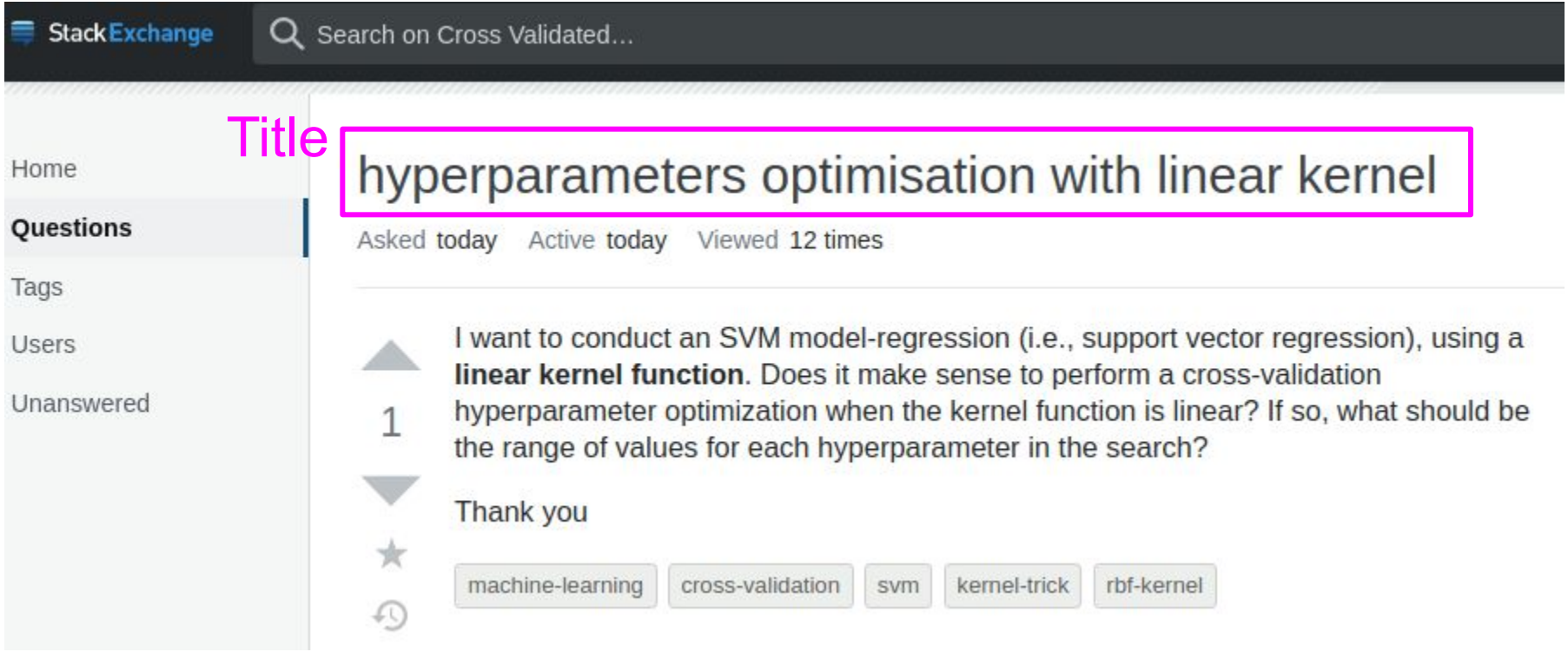
Auto-Tagging System

Understand the Business Problem



Analytics Vidhya
Learn everything about analytics

Understand the Business Problem



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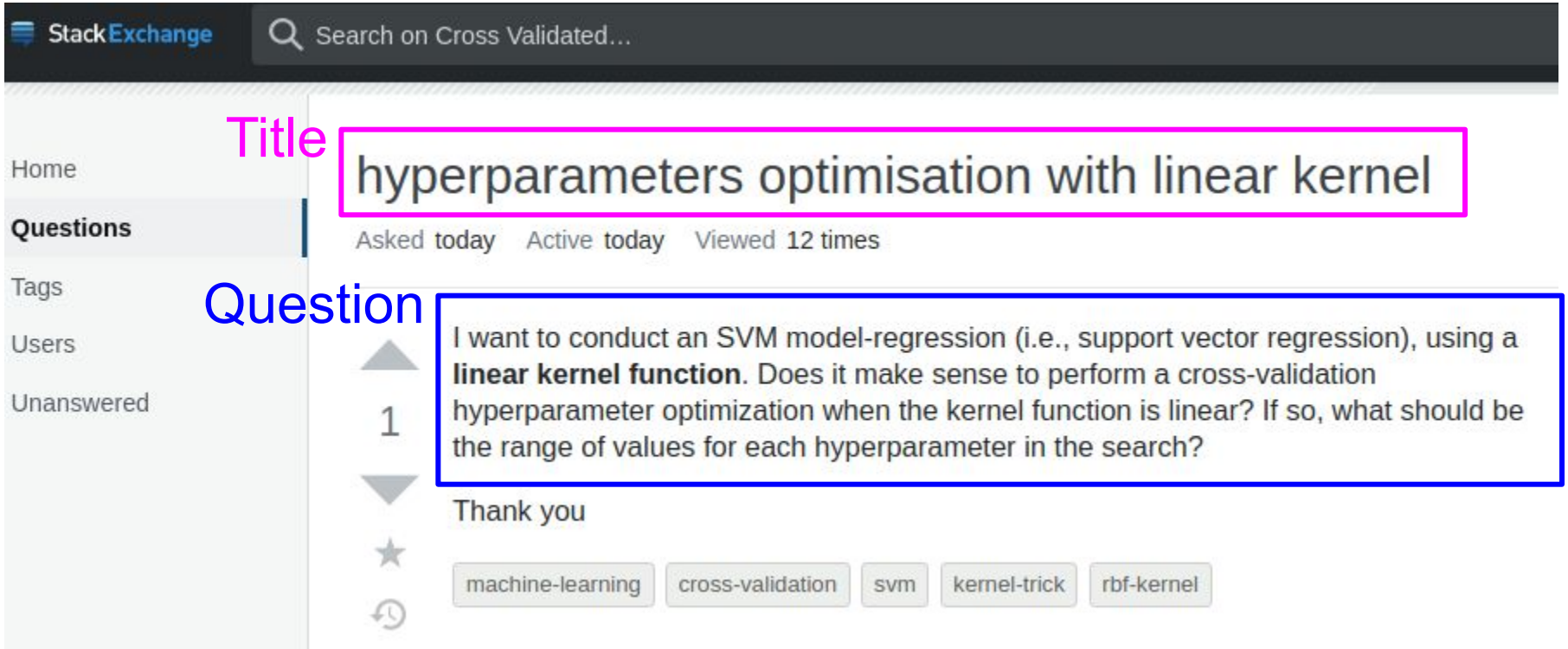

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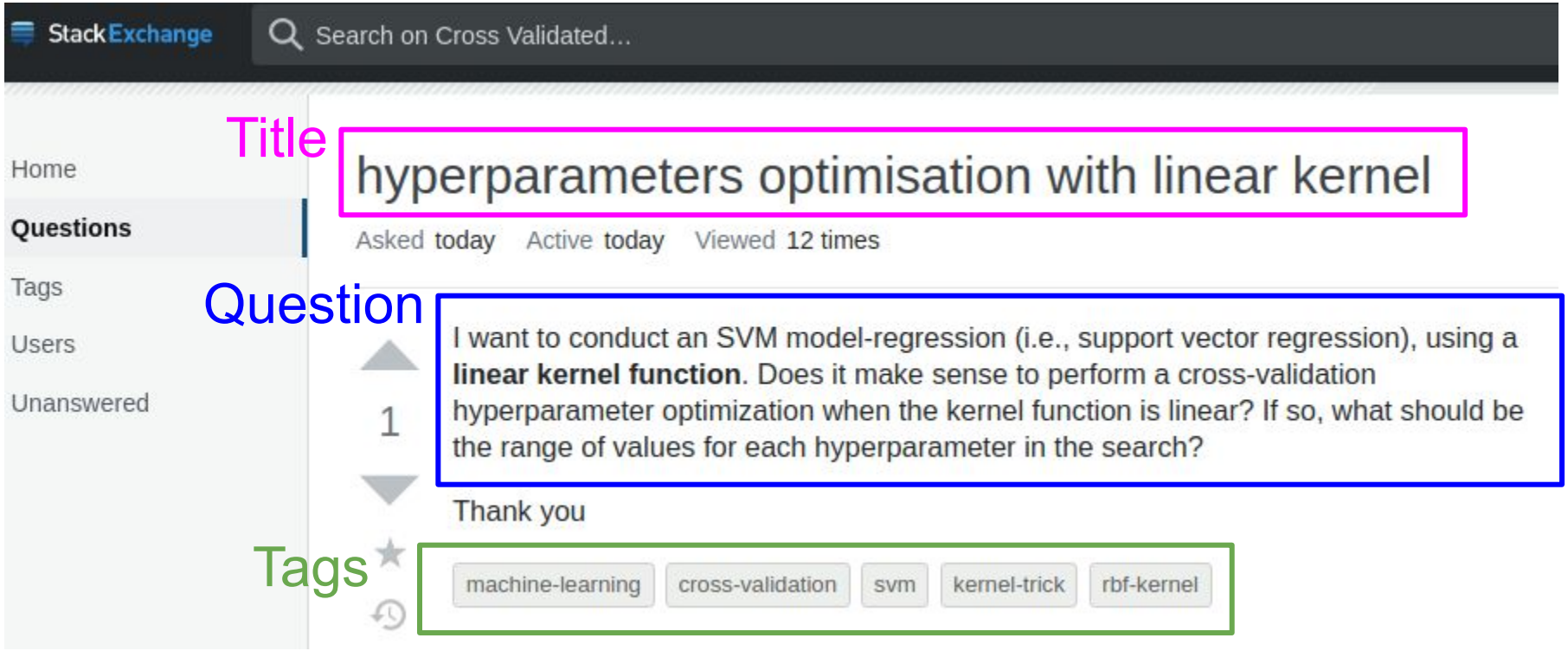

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Understand the Business Problem

Business Problem: Untagged questions or questions with irrelevant tags lead to a large number of unanswered questions. The experts find it difficult to discover the right questions, and the users who post questions don’t get timely responses. This situation leads to a drop in the level of user-engagement on the platform

Data Science Problem

Data Science Problem

- Input: Text from the question

Data Science Problem

- Input: Text from the question
- Target Variable: Multiple Tags

Data Science Problem

- Input: Text from the question
- Target Variable: Multiple Tags
- Different from Binary and Multiclass Classification

“The rising environmental pollution screams out for a need to reduce fossil fuel consumption till a replacement for mobility doesn’t spread out in the world”

“The rising **environmental pollution** screams out for a need to reduce **fossil fuel** consumption till a replacement for mobility doesn’t spread out in the world”

Data Science Problem

- Input: Text from the question
- Target Variable: Multiple Tags
- Different from Binary and Multiclass Classification

X	**y**
X_1	t_1
X_2	t_2
X_3	t_3

Multiclass

Data Science Problem

- Input: Text from the question
- Target Variable: Multiple Tags
- Different from Binary and Multiclass Classification

X	**y**
X_1	t_1
X_2	t_2
X_3	t_3

Multiclass

X	**y**
X_1	$[t_2, t_5]$
X_2	$[t_1, t_3, t_2]$
X_3	$[t_4]$

Multilabel

Data Science Problem

- Input: Text from the question
- Target Variable: Multiple Tags
- Different from Binary and Multiclass Classification

X	y
X_1	t_1
X_2	t_2
X_3	t_3

Multiclass

X	y
X_1	$[t_2, t_5]$
X_2	$[t_1, t_3, t_2]$
X_3	$[t_4]$

Multilabel

t_1: 'python'

t_2: 'regression

t_3: 'numpy'

Thank You