

Problem Statement of Spam Classifier

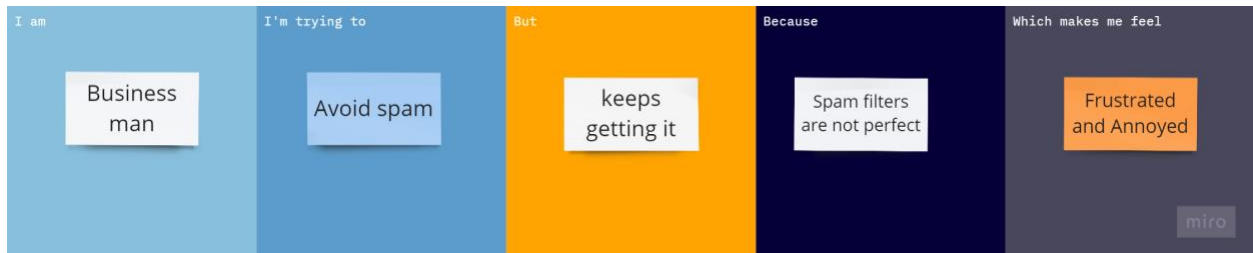
Date	30 September 2023
Team ID	NM2023TMID335
Team Name	Proj_227279_Team_1
Project Name	Building a Smarter AI-Powered Spam Classifier.

Problem Statement (PS)	I am (customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Customer	Avoid Spam	Keeps Getting It	Clogs their Inboxes	Frustrated and Annoyed
PS-2	Business Man	Avoid Spam	Keeps Getting It	Spam Filters are not Perfect	Frustrated and Annoyed
PS-2	Bank Manager	Protect Customers From Spam	Keeps Getting It	Spam Filters Are not Perfect	Frustrated and worried
PS-3	IT Manager	Protect Company from Spams	Keeps Getting It	Spam Filters are not Perfect	Frustrated and Overwhelmed

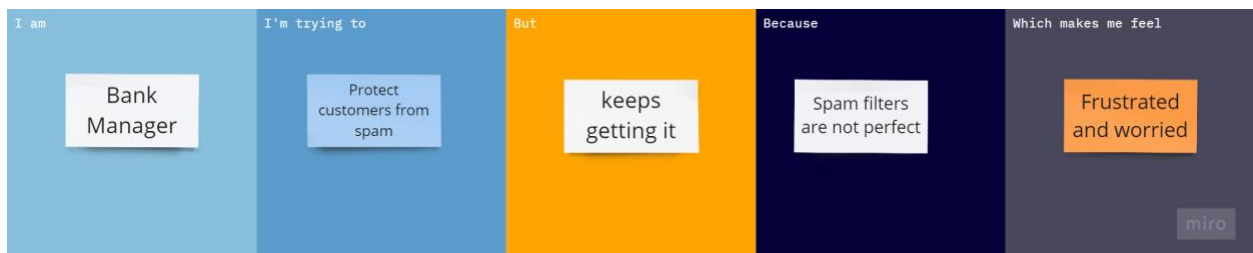
Problem Statement 1



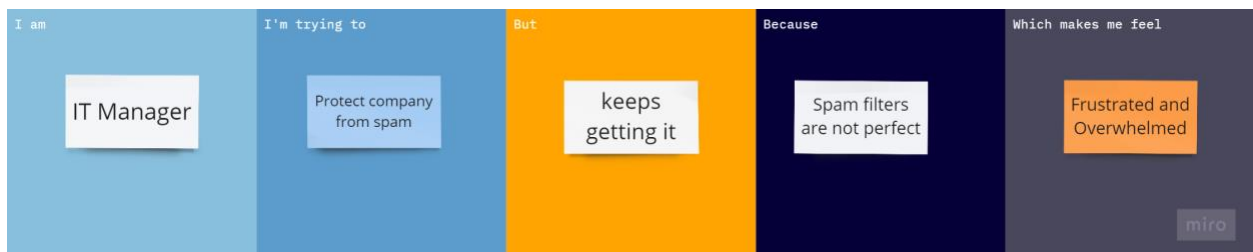
Problem Statement 2



Problem Statement 3



Problem Statement 4





IDEATION PHASE BRAIN STORMING

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PROBLEM

Once the classifier is all trained up, it goes to work in real-time, sorting through your emails with lightning speed. It's like having a personal assistant who knows your taste in emails better than you do..

SANJAI

Allow users to define their own rules for what they consider as spam or not. This can be valuable for personalization.

VISHWA

Ensure that the model's decision-making process is interpretable. This can be crucial for building trust

LISTENING IDEAS

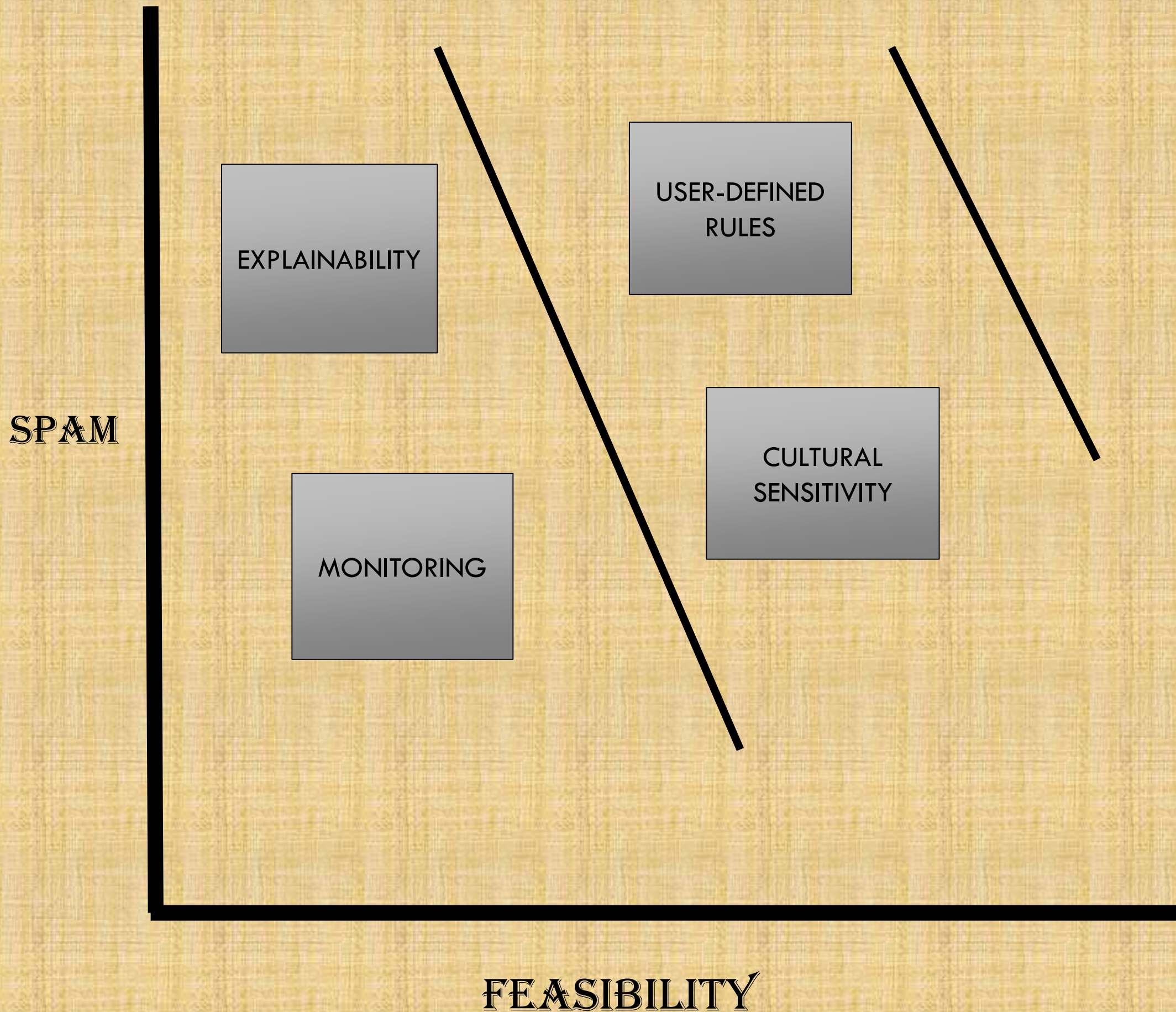
JAYARAM

Implement a monitoring system to detect performance degradation over time. This can be a sign that your model needs retraining.

UMAR

Take into account cultural nuances and variations in language when training your model to avoid bias

PRIORITIZING IDEAS



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EMPATHY OF
SPAM
CLASSIFIER

The AI communicates a commitment to developing a spam classifier that prioritizes a nuanced understanding—acknowledging the challenge of minimizing both false positives and false negatives for a more accurate filtering system.

SAYS

The AI strategically considers the complexity of feature engineering, contemplating the importance of factors like word usage, context, and structural elements in messages. It recognizes the need for a sophisticated algorithm that can adapt to the evolving nature of spam.

THINKS

SPAM

Engaging in active learning and training, the AI refines its model iteratively. It fine-tunes parameters to optimize accuracy while navigating the delicate balance between identifying spam and avoiding misclassifications of legitimate messages.

DOES

There's a sense of responsibility and a drive for precision in the AI's approach. It understands the impact of false positives on user experience and the consequences of false negatives in allowing spam through. It feels a continuous need to improve and evolve to maintain a reliable spam classification system.

FEELS