

being involved in the process.

Next Steps

reduce feedback delay.

and brand risk with natural language processing.

Twitch currently uses chat activity as an important metric when deciding partnership. Getting data on chat participation, and chat activity, in addition to identifying negativity and sentiment would address the flaws in the current model.

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One serious flaw however, is this model fails to account for chat participation and interaction, and does not

company. A widely popular streamer who constantly brings negative attention to the platform, for example,

another classifier model that specifically looks at chat interaction, with the purpose of detecting negativity

with previously denied applicants constantly resubmitting applications, the number of applications will

continue to increase, causing the current method of manual selection to need adjustment. Given this, I

might not be a wise choice to partner. To address this concern, this model could be used in conjunction with

Twitch currently approves ~5k partners per year. With the number of streamers doubling every few years, and

recommend this model be used as a transitionary adjunct to the current system to increase it's capacity and

In this case, the model will generate probabilities for channels, with a threshold below which channels are

With the models 99.8% specificity, this model will correctly discriminate the vast majority of unpartnered

looked at manually, and the assigned probability can assist the staffperson in their review.

denied, and channels above which are reviewed by hand, taking into account the chat interaction and identify

if they are a good representitive of the company. This would reduce the amount of applications needed to be

channels. As these will be the majority of applications, the model succeeds in its goal to reduce the amount of

Moving forward I would like to address the assumptions made with the data. With access to Twitch's data that

excludes artifical views, and can target historical data at the time of partnership, the model would likely be

much more accurate at predicting the partner class without losing it's selectivity against unpartnered

assess individual character/behavior to identify if a streamer is a brand risk or poor representitive of the

manual review. For the channels where the probability is high, manual review will still be necessary. In this transitionary period, the effects of the model could be field tested. Feedback from this field test would be implemented into a full switch from manual review to a fully machine based application process that considering channel metrics, chat interaction, brand risk, etc. This addresses the scalability of the application process, and will potentially reduce or eliminate personal bias introduced by multiple individual staff members

channels. Additionally, expanding the amount of data collection is a logical next step. In this analysis only 5% of the total partners were included in the dataset. A more representitive model would be a random subset of the entire partner population.

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