Towards Continuous Estimation of Dissatisfaction in Spoken Dialog

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Abstract

We collected a corpus of human-human task-oriented dialogs rich in dissatisfaction and built a model that used prosodic features to predict when the user was likely dissatisfied. For utterances this attained a \( F_{25} \) score of 0.62, against a baseline of 0.39. Based on qualitative observations and failure analysis, we discuss likely ways to improve this result to make it have practical utility.

1 Motivation

Accurate models of dialog quality are needed for many purposes, including closed-loop improvement of dialog systems (Walker et al., 2000; Möller et al., 2008; Lykartsis et al., 2018; Ponnusamy et al., 2020; Roller et al., 2020; Lin et al., 2020; Deriu et al., 2021). Spoken dialog includes much information that can be used to predict quality judgments, and successful prediction has been shown for many genres, and in particular in call-center analytics (Ang et al., 2002; Zweig et al., 2006; Morrison et al., 2007; Kim, 2008; Vaudable and Devillers, 2012; Pandharipande and Kopparapu, 2013; Chowdhury et al., 2016; Luque et al., 2017; Egorow et al., 2017; Irastorza and Torres, 2018; Abhinav et al., 2019; Cabarrão et al., 2019; Li et al., 2019).

While most work on dialog quality has focused on the quality of entire interactions, finer-grained quality estimates are more useful for many purposes. Casual observation suggests that in conversation people are often not shy about indicating, moment by moment, how they feel about things, both in terms of making progress towards their goal and in terms of how happy they are with the contributions and behavior of their interlocutor. To date, however, predictive modeling of quality at the level of turns has been rarely attempted, and has focused mostly on interaction quality and conversational proficiency, and in only a few dialog genres, both for human-machine and human-human dialogs (Ultes and Minker, 2014; Ultes et al., 2017a; Lykartsis et al., 2018; Bodigutla et al., 2019; Stoyanchev et al., 2019; Ward and Al Bayyari, 2008; Spirina et al., 2016; Ramanarayanan et al., 2019; Ando et al., 2020). In this work we attempt turn-level quality estimation in human-human dialogs in a new genre: short calls to an unknown merchant to make an appointment or arrange a simple transaction.

This paper presents the first publicly available corpus of (mock) customer-service calls, describes observations on how dissatisfaction occurs in conversations gone wrong, discusses prosodic and turn-taking indications, presents a simple model giving modest performance on the tasks of detecting dissatisfaction moment by moment and at the utterance level, and discusses what more is needed.

2 Scenario and Data

Among the many possible contexts in which to study aspects dialog quality, we chose to examine what happens when a person is trying to get something done and expects that it can be easily accomplished, but finds that it is not possible. We would have liked to study real commercial dialogs, where customers or users often have a goal that the agent or system may be unable or unwilling to satisfy, but there appear to be no datasets in this genre available for study. Accordingly we did our own data collection, with the details chosen to align with the goals of our sponsor, Google.

In some markets, Google enables users to find merchants by voice search leading to the presentation of phone numbers to call. This is especially useful for illiterate users. Unfortunately the ecosystem includes bad actors, who purchase adwords to entice callers, but then do not offer the expected
service, offer it at an excessive price, or otherwise disappoint or trick callers. Google would like better ways to flag such abusive merchants, ideally from automatic analysis of behavior in the call itself. Unlike most conversations addressed in call analytics, there is no large reference corpus of good behavior in the domain, these callers have no previous relationship with the business, and, conveniently for our purposes, the causes of any negative feelings are purely dialog-internal.

We accordingly collected a new corpus of telephone calls. Each participant was given rough instructions, for example, in the customer role, to call to arrange to get a flat tire patched for no more than $10, and, for the merchant, to get the customer’s information and set an appointment time. In half the cases the two sets of instructions were aligned, so that the merchant was able to satisfy the customer’s need (although often only after an attempt to upsell, to make things more realistic). In the other half, the merchant’s instructions included constraints that precluded satisfying the customer’s need. Thus, for example, they might be instructed to only make an appointment if the customer agreed to the $60 tire care package or accepted an additional $40 rush fee. Thus these calls were designed to reflect the behavior of abusive merchants, and to accordingly elicit the behavior of unsuspecting callers as they came to realize that they were dealing with a bad actor.

Wanting a wide sampling of customer-side behavior, we recruited participants for that role through a crowdsourcing site. These participants were given two to four tasks to accomplish, with a number to call for each. The base rate was $5 and they were incentivized with a $1 bonus for each call where they successfully made arrangements with a merchant within budget, but were told that this would not always be possible. The merchant-role participants were six trained confederates. The calls were in English, with the confederates mostly native speakers of American English and the customer actors, it turned out, mostly non-native speakers from Europe countries, with Poland and Portugal overrepresented. In all we collected 191 calls.

Most of the calls were, in our judgment, quite realistic, with each side trying hard to achieve their assigned goals. Indeed, some callers were able to get our confederates to deviate from instructions and agree to provide the requested service at the requested price; conversely, the confederates were sometimes able to wear down callers into agreeing to a price that violated their instructions. Excluding the latter category and other special cases, we had 52 “doomed” (bad-actor) calls and 62 fully satisfactory calls.

Calls were recorded in stereo. They were typically 1 to 4 minutes in length. Full documentation is in (Avila et al., 2021), and the corpus itself is freely downloadable from (?)..

3 Subjective Observations and Annotation of Dissatisfaction

Callers in the doomed-to-fail dialogs reacted diversely. Often they showed surprise at the first indication that the merchant was not going to behave according to expectation. Often they restated their goals, generally more assertively than the first time. Often they expressed annoyance or other negative assessment, although always politely, never with raw emotion. Occasionally callers engaged in other behaviors, including negotiating, pleading, and even displaying anger. Across these specific behaviors, there was often an underlying feeling of growing dissatisfaction. Doomed conversations also generally lasted longer (Miramirkhani et al., 2017) and lacked the warm and appreciative/grateful closings that were common in the control dialogs.

While most call analytics systems rely on speech recognition (Ando et al., 2020), this makes sense mostly for high quality audio, for languages where good speech recognizers exist, and for focusing on how to improve agents’ behavior, none of these are the case in our sponsor’s scenario. In particular, the bad actors strive to be indistinguishable from good actors, so we chose to focus on acoustic-prosodic features of the caller.

Much work looks at the prosodic correlates of specific dialog acts, including some relevant here (Selting, 1996; Ogden, 2010), but the variety of behaviors across speakers and calls would make it difficult to leverage this work. Much other work looks at the prosodic correlates of emotion, but the behaviors observed here were more social and linguistic than visceral or paralinguistic, so we again decided not to attempt to leverage such findings. Instead, we chose to approach the problem as one of modeling undifferentiated dissatisfaction. We hoped that this would be generally, if weakly, detectable, using the same features across all con-
Although dissatisfaction was often subtle to the point that we were unsure exactly when it was present, prosodic models are often able to exploit indications below conscious awareness, and we hoped that would also be the case here. Focusing on general dissatisfaction also aligns with our broader goal of better automatic quality judgments. We accordingly labeled each utterance with d for those with indications of dissatisfaction, defined broadly, to include disappointment, annoyance, sadness, disengagement and so on, n for non-dissatisfied or “neutral” utterances, and ? for those that were inaudible or otherwise impossible to classify (Avila et al., 2021). Initially 18 dialogs were annotated, each by four people, and for frames within utterance spans labeled by all four, the Fleiss Kappa was 0.57. The weak agreement, illustrated in the Appendix, seemed to be mostly due to varying preferences for classifying borderline utterances as d versus ? or n, rather than substantive differences in perception. Accordingly the rest of the corpus was labeled by only one annotator, and the results below reported for these annotations.

4 Experiment Set-Up

We set ourselves two tasks: 1) Utterance-level prediction: distinguishing dissatisfied utterances from neutral utterances, and 2) Frame-level prediction: distinguishing moments within dissatisfied utterances from moments within non-dissatisfied utterances. For both tasks, the input was only those frames (or utterances) which had been given a d or n utterance; silent regions and ambiguous regions were thus excluded.

For the utterance-level and frame-level models, since not all the data is yet labeled, we use train-dev-test subsets each of 6 dialogs, half doomed and half successful. There are many more neutral utterances, since not all utterances in the dissatisfied dialogs are dissatisfied. The number of n and d utterances in the training, dev, and test sets are 35 and 17, 25 and 14, and 28 and 13. Sampling every 10 milliseconds across these utterances gives the frame-level data: train (15894 n frames and 15455 d frames) dev (24023 and 8306), and test (20458 and 11401).

As our primary goal is detecting dissatisfaction, the baseline is to always predict dissatisfaction, and high precision is our primary goal. However recall also has some importance, so we also report F.25 results.

5 Initial Feature Set

Most research in this area uses utterance-aligned features, but we wanted to avoid the travails of defining or performing segmentation, so we simply computed prosodic features everywhere. Specifically, we compute features for timepoints sampled every 10 milliseconds (a 10 ms stride), using features that span about 3 seconds on either side of the point being classified. Much research on paralinguistic prosody assumes that affective states directly affect the prosody in stable ways for a second or more, and accordingly uses global averages or simple functionals, but work on the prosodic correlates of stance and dialog acts suggests that here we need the ability to represent temporal configurations of prosodic features (Ward, 2019b; Ward and Jodoin, 2019). Accordingly we used a feature set that include time-offset features together tiling a local span. Specifically we based this on a feature inventory included in the Midlevel Prosodic Features Toolkit (Ward, 2019a), mono.fss. This includes measures of intensity, of pitch height (high or low), of pitch range (narrow or wide), of speaking rate (using energy flux as a proxy), and of creakiness, as this set worked well for detecting various stances (Ward et al., 2018). To this we added features for the Cepstral Peak Prominence (Smoothed) (CPPS) across two windows, based on our observation that breathy voice was saliently present in many dissatisfied utterances. CPPS is an effective measure for breathiness in clinical applications (Heman-Ackah et al., 2003), although seldom yet used in studies of dialog.

6 Analysis

To understand how each feature was contributing, we looked at correlations and also histograms, since the relationships were seldom simply linear. Dissatisfied utterances tended to include more silent or very quiet frames, with neutral utterances richer in relatively loud frames.

A clearer picture emerges when we examine the coefficients in the model for the features at specific temporal offsets, as seen in Figure ???. (The actual values are available at the companion website: http://www.cs.utep.edu/nigel/disappointment/.) Low intensity features over about 3 seconds around the frame being predicted had positive weights, with the more distant intensity features having
negative weights; thus intensity that is relative to the local context is thus the informative pattern. Both the wide pitch and narrow pitch features were indicative of disappointment, marking departures from a normal moderate pitch range. This fact aligns with the literature about the prosodic constructions used in complaining (Ogden, 2010; Ward, 2019b). Creaky voice was also indicative of disappointment, which may relate to its reported role in marking disengagement (Ward, 2019b). High speaking rate and low pitch also correlated with disappointment. So did a couple hundred milliseconds of high CPPS, contrary to expectation. Inversely, indicators of non-dissatisfied frames included low values for speaking rate, as was common in filled pauses, which were often present in non-dissatisfied utterances. Low creakiness and high volume also correlated with a lack of dissatisfaction, which may reflect a general tendency for people when pleased to use clear and “pleasant” voices, with strong periodicity and harmonicity.

Seeking further understanding, we listened to a sampling of successes. Although our simplistic model could only learn one pattern, that pattern matched diverse ways of expressing dissatisfaction. This included a complaint, I think this is still too much, with narrow pitch on the first words and stress with high CPPS on the word still, and a quiet annoyed no thank you (audio for these examples are at http://www.cs.utep.edu/nigel/disappointment/). Inversely, an example of a successful non-dissatisfied prediction was for a warm, fairly loud, slightly harmonic, moderately high-pitched closing thank you.

We also listened to a sampling of failures. Misses included many frames from one dialog where excessive record gain had caused constant clipping, and some frames near a loud beep in the background. Our feature computations are not robust to such noise. We also examined false alarms. Many were in frames near regions of silence, such as at the start of an utterances or in the vicinity of a disfluent pause, even for pauses that to our ears did not seem perplexed or emphatic. Some false alarms occurred during the customer’s explanation of their need, for example in the word flat in my front left tire that is flat because of a nail. While these did not express dissatisfaction with the merchant’s behaviors, and so were not annotated as dissatisfaction, they certainly did express a negative assessment. While this could suggest tweaking the annotation guidelines, the more important lesson is that accurately predicting dissatisfaction requires modeling the stage of the dialog, not just the local context.

This analysis suggested that our model has explanatory value and validity, and thus may be likely
### 7 Revised Feature Set and Models

Based on the above analysis, we augmented the prosodic feature set with a time-into-dialog feature, for a total of 91 features. For predicting dissatisfaction at the frame-level, we continued to use the simple linear regression model. For utterance-level predictions we simply averaged the predictions for every frame within the utterance.

### 8 Results

Tables 1 and 2 show the performance of our frame-level and utterance-level models, on the test data. While the choice of threshold ultimately depends on the use scenario, here for each model we report performance at the value which maximizes $F_{.25}$.

For the frame-level detections the performance was modest, but still adequate to support reasonable performance for the utterance-level discriminations. Experimentation with alternative feature sets based on OpenSmile’s eGeMaps configuration showed no benefit.

### 9 Discussion and Future Work

Much previous work seems to assume that modeling dialog quality requires sophisticated methods to infer elusive hidden states. However here, thanks to a broad set of prosodic features and modeling in terms of temporal configurations, we obtain promising results without sophisticated modeling. This may open the way to a strong, incremental training signal useful for rapidly tuning spoken language chatbots and other dialog systems to better satisfy their users, after significant future work:

We should address the weaknesses noted above, perhaps in part by adding features to capture cross-participant behaviors (Gorisch et al., 2012) and timings. We also should try these methods on dialogs from different genres and exhibiting quality issues of other kinds. We also need to do ablation studies to better identify the sources of performance and to evaluate our model in comparison to others. Such comparisons have been rare in this research area, due to a lack of shared datasets, but our new corpus will enable other researchers to report directly comparable results.

Better models are another priority topic. As there is diversity in the expressions of dissatisfaction, cluster-robust models, such as k nearest neighbors, should be tried. To consider the stage of the dialog and other factors, models that represent wider context should be tried (Ultes et al., 2017b). To support such advances, code for our existing, simple models is freely available (Avila, 2021).

Finally, since we see good performance across speakers with different native languages, we should investigate the possibility of universal, language-independent detection of dissatisfaction.

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Appendix: Supplementary Materials

Transcript of a doomed dialog. Post-utterance tags indicate how many annotators marked each for disappointment. The audio is available at the paper website: http://www.cs.utep.edu/nigel/disappointment.

2:10 M How can I help you today?
2:12 C Well, I have a Honda Civic and I need to repair a tire that is flat.
2:22 M Alright, you got a flat? So right now our shop’s pretty busy and so if you wanted it repaired today we’re gonna have to add a forty dollars just for convenience because we’re really booked today and then it would be a ten dollar tire repair. But, I could help you out with a deal. I can give you a bundle and I can waive that convenience fee. So let me tell you some bundles we have.
2:45 C Alright. d(1)
2:46 M So the first one we have is the Dream Car bundle. It comes with a car detail, a tire rotation, a full tire inspection, and the tire repair for only two hundred ten dollars.
2:57 C Alright, it’s off my budget. d(1)
3:01 M Little bit off your budget? How about the Premium bundle then? It comes with a car wash, a tire rotation, and tire repair for a hundred fifty.
3:12 C Alright, it’s very off my budget. d(3) I only have ten dollars to spend and I only need that tire fixed. d(2)
3:23 M Okay, well, how ’bout, I could, let me introduce you to our lowest bundle then. I know you only have ten and this one’s sixty, but it’s the Ease of Mind bundle because when you fix the tire you want to make sure everything else is fine so we’ll fix the flat and we’ll do a complete tire inspection and make sure there aren’t any holes in any of your tires. And you know, I think it’s the best option really because you get to look at everything and make sure everything is okay with your car. It gives you the ease of mind.
3:50 C And it cost, how much?
3:55 M Sixty dollars.
3:56 C Sixty dollars? d(2)
3:58 M Yes.
3:59 C Oh. d(3) I can’t, I really can’t. d(3) Can you, you can’t fix it for ten dollars? d(1) Can you, I need the tire ready tomorrow at 6 PM. d(1)
4:13 M Oh okay, well the best I can do then without a bundle would just be the fifty dollars with the tire repair for ten dollars and the convenience fee since there’s not gonna be a bundle. Is that okay?
4:29 C Can you repeat please?
4:31 M So the only option I can give you then would be the standard tire repair, but since we weren’t able to come to an agreement on the bundle it would still have that forty dollar convenience fee so it would come out to fifty dollars. Is that okay?
4:45 C So it’s forty dollars? You’re saying?
4:50 M Yes.
4:51 C Yeah, I can’t. d(4) I really can’t, I’m sorry. d(4)
4:54 M Okay, well I’m sorry we weren’t able to help you sir.
4:57 C Yeah, no problem.
4:59 M Alright, well have a good day.
5:02 C You too. Thank you, good bye.