

Can we predict self-reported customer satisfaction from interactions?

Jeremy Auguste, Delphine Charlet, Geraldine Damnati, Frédéric Béchet,

Benoit Favre

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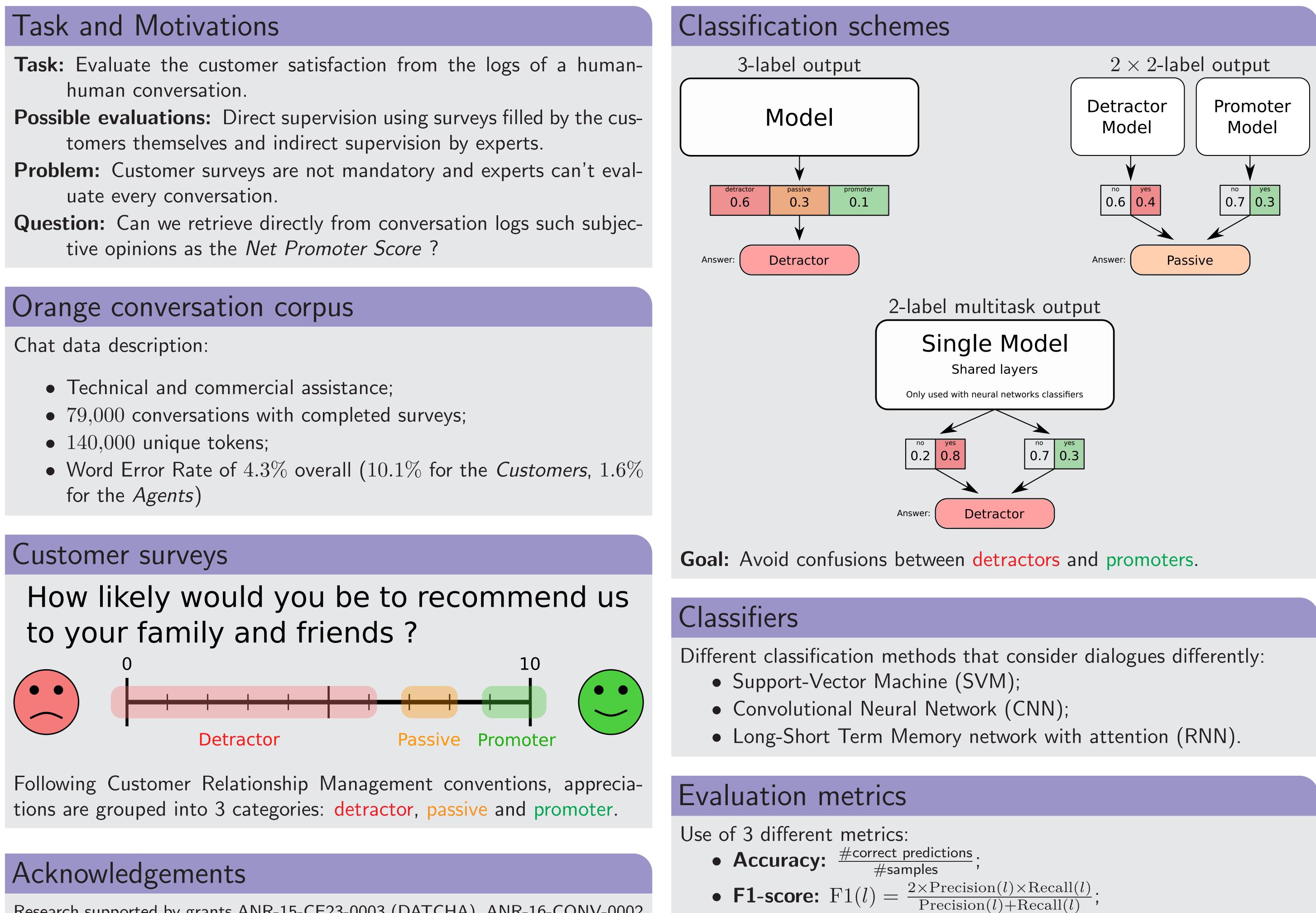


Summary

- **Objective:** Automatically evaluate the customer satisfaction from conversation logs.
- **Data:** Contact center chat conversations and the customers' satisfaction surveys.

- human conversation.
- uate every conversation.
- tive opinions as the Net Promoter Score ?

- for the *Agents*)



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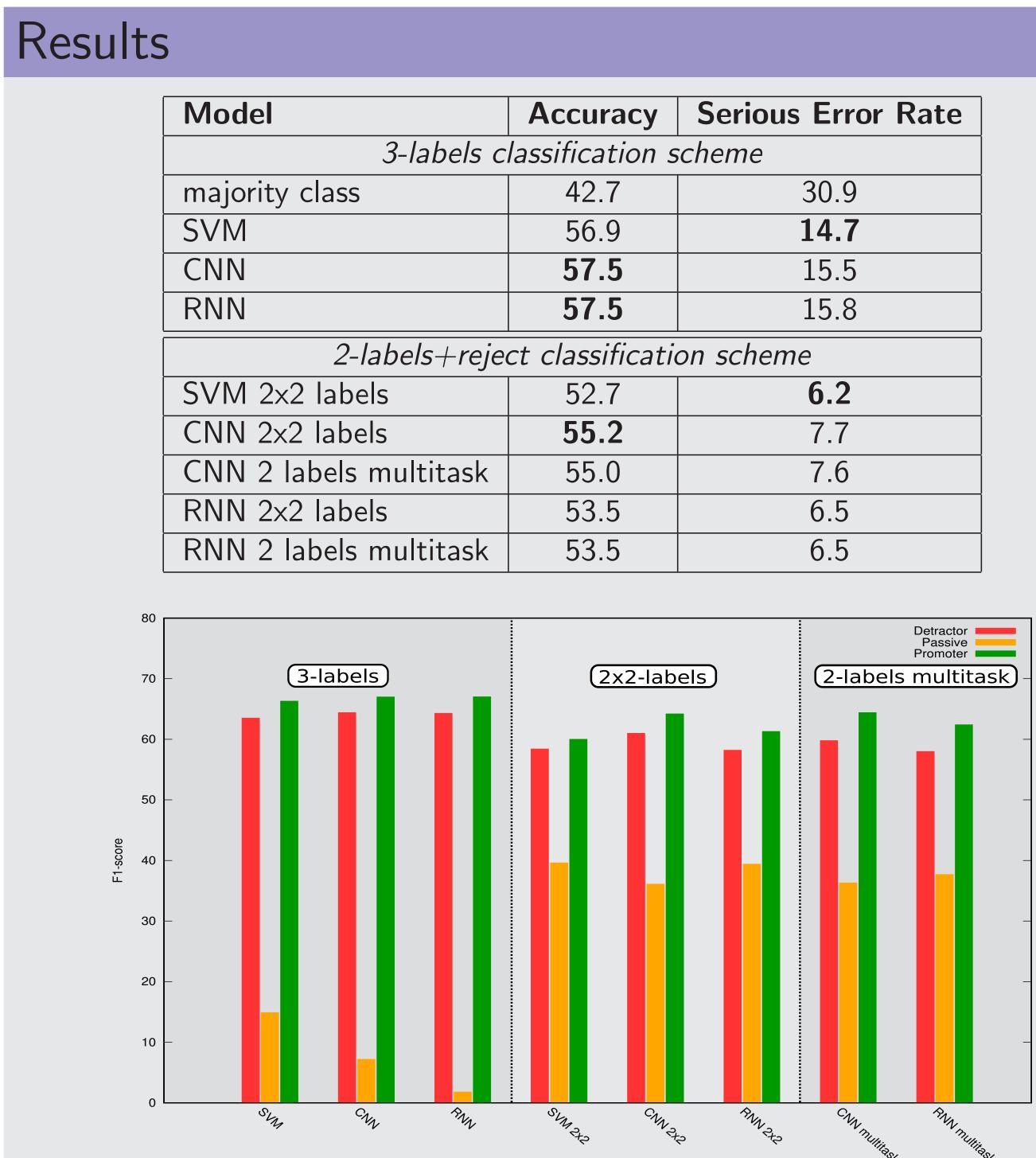
(1) {firstname.lastname}@univ-amu.fr (2) {firstname.lastname}@orange.com

• Method: Comparison of different classification schemes: 3-labels, 2×2 -labels or 2-labels multitask classification. Definition of the Serious Error Rate metric to focus on problematic confusions.

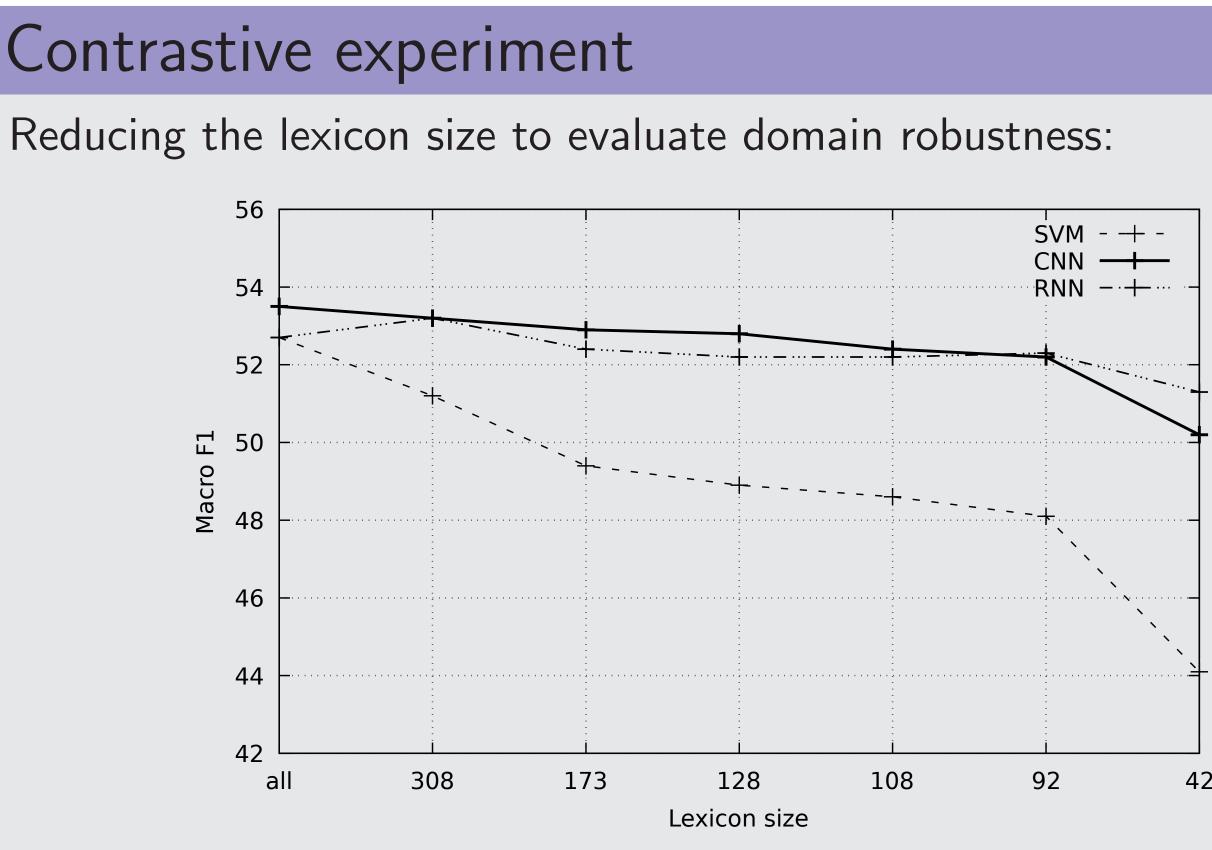
• **Results:** Considering the classification of extreme opinions as two distinct tasks greatly improves the results on the neutral class.

• Serious Error Rate: Percentage of confusion between the Detractor and the Promoter classes.

Jeremy Auguste¹, Delphine Charlet², Géraldine Damnati², Frédéric Béchet¹, Benoit Favre¹



2-labels schemes greatly improve the prediction of the passive class and greatly reduce confusions between extreme classes.



Lexicon reduced by selecting words occuring at least 10K to 100K times.





	Accuracy	Serious Error Rate
s classification scheme		
	42.7	30.9
	56.9	14.7
	57.5	15.5
	57.5	15.8
eject classification scheme		
	52.7	6.2
	55.2	7.7
k	55.0	7.6
	53.5	6.5
k	53.5	6.5