

# **Homework 2: Aspect-Based Sentiment Analysis**

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## **1 Introduction**

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All figures and tables have been intentionally placed at the end of the document, in this section, so that they don't affect the maximum limit of three pages for the text.

Dataset	positive	negative	neutral	conflict
L. Train.	802	717	369	39
L. Val.	185	149	91	6
R. Train.	1803	647	508	72
R. Val.	361	158	125	19
Train.	2605	1364	877	111
Val.	546	307	216	25

Table 1: Datasets polarities frequencies (task A+B).

Dataset	anecdotes/miscellaneous	price	food	ambience	service
R. Train.	941	268	1008	355	478
R. Val.	191	53	224	76	119

Table 2: Datasets categories frequencies (task C+D).

Dataset	positive	negative	neutral	conflict
R. Train.	1803	672	411	164
R. Val.	376	167	89	31

Table 3: Datasets polarities frequencies (task C+D).

## References

- Diederik P. Kingma and Jimmy Ba. 2017. [Adam: A method for stochastic optimization](#).
- Jeffrey Pennington, Richard Socher, and Christopher D. Manning. 2014. [Glove: Global vectors for word representation](#). In *Empirical Methods in Natural Language Processing (EMNLP)*, pages 1532–1543.
- Nitish Srivastava, Geoffrey Hinton, Alex Krizhevsky, Ilya Sutskever, and Ruslan Salakhutdinov. 2014. [Dropout: A simple way to prevent neural networks from overfitting](#). *Journal of Machine Learning Research*, 15(56):1929–1958.