

# Navonil Majumder

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## Education

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<b>Centro de Investigación en Computación, IPN</b> <i>Ph.D. in Computer Science</i> Thesis : Latent Memory-Based Neural Models for Sentiment Analysis of Multimodal Multi-Party Conversations	<b>Mexico City, Mexico</b> <i>Aug 2017 – Jul 2020</i>
<b>Centro de Investigación en Computación, IPN</b> <i>Master in Computer Science, Honours</i> Thesis : Multimodal Sentiment Analysis in Social Media using Deep Learning with Convolutional Neural Networks	<b>Mexico City, Mexico</b> <i>Aug 2015 – Jul 2017</i>
<b>Jadavpur University</b> <i>Bachelor in Computer Science and Engineering, First Class Honours</i>	<b>Kolkata, India</b> <i>July 2009 – June 2013</i>

## Experience

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<b>Tata Consultancy Services</b> <i>Assistant Systems Engineer</i> Developer of Oracle-Apps-based <i>ERP</i> applications	<b>Kolkata, India</b> <i>Aug 2013 – Aug 2015</i>
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## Internships

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<b>Nanyang Technological University</b> <i>Computational Intelligence Lab</i> Project: Development of new models for multimodal sentiment analysis based on multi-task learning Host : Dr. Erik Cambria	<b>Singapore</b> <i>Feb 2018 – May 2018</i>
<b>Nanyang Technological University</b> <i>Computational Intelligence Lab</i> Project: Developing methods for detecting emotion shifts in conversations Host : Dr. Soujanya Poria	<b>Singapore</b> <i>Feb 2019 – Aug 2019</i>

## Publications

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- Journal.....
1. N. Majumder, R. Bhardwaj, S. Poria, A. Gelbukh, A. Hussain. *Improving Aspect-Level Sentiment Analysis with Aspect Extraction*. Neural Computing and Applications (2020), [Accepted].  
**JCR impact factor: 4.664**
  2. N. Majumder, S. Poria, H. Peng, N. Chhaya, E. Cambria, A. Gelbukh. *Sentiment and Sarcasm Classification With Multitask Learning*. IEEE Intelligent Systems, vol. 34(3), pp. 38–43 (2019).

ISSN 1541-1672. doi:10.1109/MIS.2019.2904691.

**JCR impact factor: 2.596**

3. Y. Mehta, N. Majumder, A. Gelbukh, E. Cambria. *Recent trends in deep learning based personality detection*. Artificial Intelligence Review (2019). ISSN 1573-7462. doi:10.1007/s10462-019-09770-z.

**JCR impact factor: 5.095**

4. S. Poria, N. Majumder, R. Mihalcea, E. Hovy. *Emotion Recognition in Conversation: Research Challenges, Datasets, and Recent Advances*. IEEE Access, pp. 1–1 (2019). ISSN 2169-3536. doi:10.1109/ACCESS.2019.2929050.

**JCR impact factor: 4.098**

5. N. Majumder, D. Hazarika, A. Gelbukh, E. Cambria, S. Poria. *Multimodal sentiment analysis using hierarchical fusion with context modeling*. Knowledge-Based Systems, vol. 161, pp. 124 – 133 (2018). ISSN 0950-7051. doi:10.1016/j.knosys.2018.07.041.

**JCR impact factor: 4.396**

6. S. Poria, N. Majumder, D. Hazarika, E. Cambria, A. Gelbukh, A. Hussain. *Multimodal Sentiment Analysis: Addressing Key Issues and Setting Up the Baselines*. IEEE Intelligent Systems, vol. 33(6), pp. 17–25 (2018). ISSN 1541-1672. doi:10.1109/MIS.2018.2882362.

**JCR impact factor: 2.596**

7. N. Majumder, S. Poria, A. Gelbukh, E. Cambria. *Deep Learning-Based Document Modeling for Personality Detection from Text*. IEEE Intelligent Systems, vol. 32(2), pp. 74–79 (2017). ISSN 1541-1672. doi:10.1109/MIS.2017.23.

**JCR impact factor: 3.532**

Conference.....

8. D. Ghosal, D. Hazarika, A. Roy, N. Majumder, R. Mihalcea, S. Poria. *KinGDOM: Knowledge-Guided DOMain adaptation for sentiment analysis*. In: *Proceedings of the 58th Conference of the Association for Computational Linguistics*. Association for Computational Linguistics (2020), [Accepted]
9. D. Ghosal, N. Majumder, S. Poria, N. Chhaya, A. Gelbukh. *DialogueGCN: A Graph Convolutional Neural Network for Emotion Recognition in Conversation*. In: *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*, pp. 154–164. Association for Computational Linguistics, Hong Kong, China (2019). doi:10.18653/v1/D19-1015
10. N. Majumder, S. Poria, D. Hazarika, R. Mihalcea, A. Gelbukh, E. Cambria. *DialogueRNN: An Attentive RNN for Emotion Detection in Conversations*. In: *Proceedings of the AAAI Conference on Artificial Intelligence*, vol. 33, pp. 6818–6825 (2019). doi:10.1609/aaai.v33i01.33016818
11. S. Poria, D. Hazarika, N. Majumder, G. Naik, E. Cambria, R. Mihalcea. *MELD: A Multimodal Multi-Party Dataset for Emotion Recognition in Conversations*. In: *Proceedings of the 57th Conference of the Association for Computational Linguistics*, pp. 527–536. Association for Computational Linguistics, Florence, Italy (2019)
12. G. Krishnamurthy, N. Majumder, S. Poria, E. Cambria. *A Deep Learning Approach for Multimodal Deception Detection*. In: *Computational Linguistics and Intelligent Text Processing*, vol. abs/1803.00344 (2018)

13. N. Majumder, S. Poria, A. Gelbukh, M. S. Akhtar, E. Cambria, A. Ekbal. *IARM: Inter-Aspect Relation Modeling with Memory Networks in Aspect-Based Sentiment Analysis*. In: *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing*, pp. 3402–3411. Association for Computational Linguistics, Brussels, Belgium (2018)
14. A. Zadeh, P. P. Liang, N. Majumder, S. Poria, E. Cambria, L.-P. Morency. *Memory Fusion Network for Multi-view Sequential Learning*. In: *AAAI Conference on Artificial Intelligence* (2018)
15. S. Poria, E. Cambria, D. Hazarika, N. Majumder, A. Zadeh, L. Morency. *Multi-level Multiple Attentions for Contextual Multimodal Sentiment Analysis*. In: *2017 IEEE International Conference on Data Mining (ICDM)*, pp. 1033–1038 (2017). ISSN 2374-8486. doi:10.1109/ICDM.2017.134
16. S. Poria, E. Cambria, D. Hazarika, N. Majumder, A. Zadeh, L.-P. Morency. *Context-Dependent Sentiment Analysis in User-Generated Videos*. In: *Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pp. 873–883. Association for Computational Linguistics, Vancouver, Canada (2017)

## Active Collaborations

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- Declare Lab, SUTD, Singapore
- School of Computing, NUS, Singapore
- The Language and Information Technologies Lab, UMich, USA
- Computational Intelligence Lab, NTU, Singapore

## Reviewer of Journals

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- Information Fusion
- Cognitive Computation
- IEEE Transactions on Affective Computing

## PC Member

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- ACL 2020 (Outstanding Reviewer)
- EMNLP 2019, 2020
- NAACL 2019
- AAAI 2019, 2020
- Student chair of CORE 2016

## Awards

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- Best academic performance during masters and Ph.D.
- Awarded gold medals, as the highest recognition of excellency by IPN, in masters and Ph.D.

## Programming Skills

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**Programming languages** : Python, C, C++, Java, Bash Script

**NN Frameworks** : PyTorch, Theano, Keras

## Languages

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**Bengali** : Fully proficient (Native)

**English** : Fully proficient

**Hindi** : Moderately skilled

**Spanish** : Moderately skilled