Prashanth Vijayaraghavan

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Education

2016 – Now **PhD, Massachusetts Institute of Technology**
MIT Media Lab, Cambridge, USA
Anticipated Dissertation Title: *Socially-aware Machine Learning.*

2014 – 2016 **Master of Science, Massachusetts Institute of Technology**
MIT Media Lab, Cambridge, USA
Thesis title: *Automatic identification of representative content on Twitter.*

2008 – 2012 **Bachelor of Engineering, Madras Institute of Technology**
Anna University, Chennai, India
Honor: *University Gold Medalist*

Employment History

2017 – 2017 **Research Intern** Twitter Inc., Cambridge, USA
Involved in learning semantic representations of documents by training on news articles.

2013 – 2014 **Software Development Engineer** Groupon India Private Limited, Chennai, India.
Part of Competitor Intelligence team. Built an automatic learning framework that can intelligently capture template data from a webpage based on examples.

2012 – 2013 **Software Development Engineer** Media.net, Mumbai, India, Chennai, India.
Part of R&D team of Media.net and built a system that intelligently maps text and images and performs content-aware cropping of images.

Research Publications

* – The first two authors contributed equally for this work.

Working Paper/Papers Under Review

1. **Vijayaraghavan, Prashanth**, & Roy, D. (2021c). Modeling narrative structure in short personal narratives using protagonist's mental representation. In *Review*.

Conference Proceedings

1. **Vijayaraghavan, Prashanth**, & Roy, D. (2021a). Lifelong knowledge-enriched social event representation learning. In *Press, to appear in 16th european chapter of the association for computational linguistics (EACL 2021)*.
2. **Vijayaraghavan, Prashanth**, & Roy, D. (2021b). Modeling human motives and emotions from personal narratives using external knowledge and entity tracking. In *Press, to appear in proceedings of the web conference (WWW) 2021*.
3. **Vijayaraghavan, Prashanth**, Chu, E., & Roy, D. (2020). DAPPER: Learning domain-adapted persona representation using pretrained BERT and external memory. In *Proceedings of the 1st conference of the asia-pacific chapter of the association for computational linguistics and the 10th international joint conference on natural language processing (AACL-IJCNLP)* (pp. 643–652). Association for Computational Linguistics. Retrieved from https://www.aclweb.org/anthology/2020.aacl-main.65

4. **Vijayaraghavan, Prashanth**, & Roy, D. (2019). Generating black-box adversarial examples for text classifiers using a deep reinforced model. In *Joint european conference on machine learning and knowledge discovery in databases (ECML-PKDD)* (pp. 711–726). Springer, Cham. doi:10.1007/978-3-030-46147-8_43

5. **Vijayaraghavan, Prashanth***, Chu, E., & Roy, D. (2018). Learning personas from dialogue with attentive memory networks. In *Proceedings of the 2018 conference on empirical methods in natural language processing (EMNLP)* (pp. 2638–2646). doi:10.18653/v1/D18-1284

6. Sra, M., Maes, P., **Vijayaraghavan, Prashanth**, & Roy, D. (2017). Auris: Creating affective virtual spaces from music. In *Proceedings of the 23rd acm symposium on virtual reality software and technology (VRST)* (pp. 1–11). doi:10.1145/3139131.3139139

7. **Vijayaraghavan, Prashanth***, Vosoughi, S., & Roy, D. (2017). Twitter demographic classification using deep multi-modal multi-task learning. In *Proceedings of the 55th annual meeting of the association for computational linguistics (ACL volume 2: Short papers)* (pp. 478–483). doi:10.18653/v1/P17-2076

8. **Vijayaraghavan, Prashanth***, Vosoughi, S., Yuan, A., & Roy, D. (2017a). Mapping twitter conversation landscapes. In *Proceedings of the international AAAI conference on web and social media (ICWSM)* (Vol. 11).

9. **Vijayaraghavan, Prashanth***, Vosoughi, S., Yuan, A., & Roy, D. (2017b). Tweetvista: An ai-powered interactive tool for exploring conversations on twitter. In *Proceedings of the 22nd international conference on intelligent user interfaces companion (IUI)* (pp. 145–148). doi:10.1145/3030024.3040979

10. **Vijayaraghavan, Prashanth***, Vosoughi, S., & Roy, D. (2016a). Automatic detection and categorization of election-related tweets. In *Proceedings of the international AAAI conference on web and social media (ICWSM)* (Vol. 10). Retrieved from https://arxiv.org/abs/1605.05150

11. **Vijayaraghavan, Prashanth***, Vosoughi, S., & Roy, D. (2016b). Tweet2vec: Learning tweet embeddings using character-level cnn-lstm encoder-decoder. In *Proceedings of the 39th international acm sigir conference on research and development in information retrieval (SIGIR)* (pp. 1041–1044). doi:10.1145/2911451.2914762

12. **Vijayaraghavan, Prashanth**, & Sra, M. (2014). Handwritten tamil recognition using a convolutional neural network. In *2018 international conference on information, communication, engineering and technology (ICICET)* (pp. 1–4).

Workshop Papers

1. **Vijayaraghavan, Prashanth**, & Vijayaraghavan, L. (2021). Modeling social media narratives about caste-related news stories. In *Press, to appear in text2story@ ECIR*.

2. **Vijayaraghavan, Prashanth**, Larochelle, H., & Roy, D. (2019). Interpretable multi-modal hate speech detection. In *Ai for social good workshop at the international conference on machine learning (ICML workshop)*. Retrieved from https://arxiv.org/pdf/2103.01616.pdf

3. Sra, M., **Vijayaraghavan, Prashanth**, Maes, P., Roy, D. et al. (2017). Deepspace: Mood-based image texture generation for virtual reality from music. In *Proceedings of the ieee conference on computer vision and pattern recognition (CVPR) workshops* (pp. 41–50). doi:10.1109/CVPRW.2017.283

4. **Vijayaraghavan, Prashanth**, & Roy, D. (2017). Video semnet: Memory-augmented video semantic network. *Proceedings of NIPS 2017 Workshop on Visually-Grounded Interaction and Language, arXiv preprint arXiv:2011.10909*. Retrieved from https://arxiv.org/abs/2011.10909

Press Coverage

Washington Post	Twitter users definitely see the Supreme Court vacancy as an election issue. How the Orlando attack showed the potential of an October Surprise? Twitter's political debate focuses on much different issues than Americans at large do.
Vice News	Journalists and Trump voters live in separate online bubbles, MIT analysis shows.
NYT	How to Escape Your Political Bubble for a Clearer View.
PRI	Just how uncivil is Election 2016? MIT's Media Lab has some charts you should see.
NPR	Tech Creates Our Political Echo Chambers. It Might Also Be A Solution.
Vox	This Chrome add-on lets you see Twitter through the eyes of other users
Slate	Pop Goes the Filter Bubble?
Mashable	MIT-designed Chrome extension fixes your Twitter filter bubble
MIT Tech Review	Technologists are trying to fix the "filter bubble" problem that tech helped create
The Outline	MIT released a tool that uses real people's Twitter feeds to show you the "otherside"

Miscellaneous Experience

Awards and Achievements

2013	**Best Performer of the Quarter** - Groupon India Private Limited, Chennai.
	University Gold Medalist - Overall Topper award at Anna University.
2011	**Overall Meritorious Student**, Anna University.
	Best performer Award, Anna University
	Microsoft Topper Award

Volunteering

2018-Present	Co-reviewed and reviewing for conferences like ECML-PKDD, ACL, etc.
2017-Present	Involved in remote teaching for rural students in India.

References

Available on Request