Vihari Piratla
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Education

- **Indian Institute of Technology, Bombay** — *June 2017 - Present*
  M.Tech. + Ph.D. Dual Degree, Department of Computer Science — GPA: 9.88/10
  Advisors: Prof. Sunita Sarawagi and Prof. Soumen Chakrabarty

- **Indian Institute of Technology, Mandi** — *2010 - 2014*
  B.Tech. Department of Computer Science — GPA: 8.34/10

Research Interests

- Domain Robustness, Out-of-domain Generalization, Domain Transfer, Supervised Robustness.

- **Research Focus:** Algorithms that generalize and adapt to new domain(s) with limited resources.

Publications

1. **V Piratla**, S Shankar, "Untapped Potential of Data Augmentation: A Domain Generalization Viewpoint" *ICML 2020 Workshop on Uncertainty & Robustness in Deep Learning.*

2. S Shah, **V Piratla**, S. Sarawagi, S. Chakrabarti, "NLP Service APIs and Models for Efficient Registration of New Clients" *Under review at Empirical Methods in Natural Language Processing (EMNLP), 2020.*

3. **V Piratla**, P Netrapalli, S Sarawagi, "Efficient Domain Generalization via Common-Specific Low-Rank Decomposition" *International Conference on Machine Learning 2020*

4. **V Piratla**, S Sarawagi, S Chakrabarti, "Topic Sensitive Attention on Generic Corpora Corrects Sense Bias in Pretrained Embeddings" *Annual Meeting of the Association for Computational Linguistics (ACL) 2019 (Oral)*

5. A Awasthi, S Sarawagi, R Goyal, S Ghosh, **V Piratla**, "Parallel iterative edit models for local sequence transduction" *Empirical Methods in Natural Language Processing (EMNLP), 2019*

6. S Shankar*, **V Piratla***, S Chakrabarti, S Chaudhuri, P Jyothi, S Sarawagi, "Generalizing Across Domains via Cross-Gradient Training" *International Conference on Learning Representations 2018* [Shared first author]

Scholastic Achievements

- Google, Microsoft travel grants to present at ACL 2019; ICLR 2018 Travel Award.

- Department Rank one among 100 students in the M.Tech computer science batch of 2019.

- I represented IIT Mandi, as a member of a team, in ACM International Collegiate Programming Contest 2012-13 Kharagpur and 2013-14 Kanpur regional.

- I was among the top students qualified from my region for the Indian National Mathematical Olympiad (INMO) after clearing Regional Mathematical Olympiad (RMO) '09 with a state rank of 26.

- I was part of a team that won the first-prize in Design Practicum course open-house in 2012 for the project "Touch Screen Projector" among 20 other teams.

- I received various scholarships that waived my tuition fees for five years during my schooling

Experience

- Intern — Aug'19 - Nov'19
  Mentor: Dr. Praneeth Netrapalli — *Microsft Research, India*
  Worked on algorithms that enable efficient transfer and generalization to new domains.

- Research Member Staff — June'14 - Feb'16
  Mentor: Dr. Sudheendra Hangal — *Amuse Labs*
  Worked on a digital archival project called ePADD and developed the following features. (1) A fine-grained entity recognizer robust to domain shifts from different archives using Binomial Mixture Models and Distant Supervision. (2) Cross document co-referencing and entity linking using context cues.

Other Academic Experience

- **Student Volunteer:** ICML 2020, ACL 2019

- **Reviewer:** IEEE Transactions on Multimedia

- **Teaching Assistant:** Advanced Machine Learning, Digital Image Processing, Organization of Web Information.