# Pranav Maneriker

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## Research Interests

Natural Language Processing, Statistical Inference, Data Mining

## Education

**The Ohio State University** August 2018 | Present
PhD in Computer Science and Engineering. *GPA: 4.0/4.0* Advisor: Dr. Srinivasan Parthasarathy

**IIT Kanpur** June 2012 | Jun 2016
B. Tech. Computer Science and Engineering. *GPA: 9.2/10*
Minor in English Literature

## Experience

**The Ohio State University** Columbus, Ohio
*Research Assistant* Aug 2018 | Present

- Ontology and relation modeling in transfer learning settings
- Semantic analysis of text, including style and intent

**Amazon** Seattle, Washington
*Applied Scientist Intern* May 2019 | Aug 2019

- Fraud detection in the Buyer Fraud team, Transaction Risk Management Systems
- Nonparametric regression, metric learning and few-shot learning approaches
- Improved performance and reduced data requirements for fraud detection

**Adobe Research** Bengaluru, India
*Research Scientist* June 2016 | Jul 2018
*Research Intern* May 2015 | Jul 2015

- Natural language processing problems including text summarization, computational creativity and style and affect in text
- Statistical modeling of effectiveness with synthetic control based econometric methods
- Frequent itemset mining based models for large scale prediction
- Experiment design for evaluation
- Work resulted in multiple patents and publications

**IIT Kanpur** Kanpur, India
*Teaching Assistant, Introduction to Programming* Jan 2016 | Apr 2016
*Teaching Assistant, Data Structures and Algorithms* Aug 2015 | Nov 2015

## Selected Publications

- Byung-Doh Oh*, Pranav Maneriker*, Nanjiang Jiang*. **THOMAS: The Hegemonic OSU Morphological Analyzer using Seq2seq**, SIGMORPHON Workshop, Association for Computational Linguistics (ACL) 2019
- Pranav Maneriker, Nikhita Vedula, Hussein S. Al-Olimat, Jiayong Liang, Omar El-Khoury, Ethan Kubatko, Desheng Liu, Krishnaprasad Thirunarayan, Valerie Shalin, Amit Sheth, Srinivasan Parthasarathy. **A Pipeline for Disaster Response and Relief Coordination**, SIGIR 2019
- Nikhita Vedula, Pranav Maneriker, Srinivasan Parthasarathy. **BOLT-K: Bootstrapping Ontology Learning via Transfer of Knowledge**, The Web Conference (WWW) 2019
- Paridhi Maheshwari, Nitish Bansal, Surya Dwivedi, Rohan Kumar, Pranav Manerriker, Balaji Vasan Srinivasan. **Examplar Based Experience Transfer**, Intelligent User Inverfaces (IUI) 2019
- Balaji Vasan Srinivasan, Pranav Maneriker, Kundan Krishna, Natwar Modani. **Corpus-based Content Construction**, International Conference on Computational Linguistics (COLING) 2018
- Ritwik Sinha, Dhruv Singal, Pranav Maneriker, Kushal Chawla, Yash Shrivastava, Deepak Pai, Atanu Sinha. **Forecasting Granular Audience Size for Online Advertising** 2018 TargetAd and AdKDD (KDD workshop)

## Patents

- BV Srinivasan, SK Saini, K Krishna, Anandhavelu N, T Goyal, P Maneriker, C Huesler, **Bundling Online Content Fragments For Presentation Based on Content-Specific Metrics and Inter-Content Constraints**, US Patent App. 15/687,658, 2018
- N Modani, V Subramanian, S Gupta, P Maneriker, Utpal, G Hiranandani, A Sinha, **Multimedia Document Summarization**, US Patent App. 14/947,964, 2017
- N Modani, V Subramanian, S Gupta, P Maneriker, Utpal, G Hiranandani, A Sinha, **Determining quality of a summary of multimedia content**, US Patent 9,454,524, 2016

## Awards and Achievements

- **Aditya Birla Group Scholarship** (2012 - 2016) Awarded to about 15 students from the top Engineering Schools across India on the basis of academic and co-curricular excellence
- **Academic Excellence Award** (2013) Awarded to top 7% of the students in the university
- **International Collegiate Programming Contest** (ICPC 2014) Positioned 22$^{nd}$ among the top 250 teams across India in Amritapuri Regionals.
- **IIT JEE, AIEEE** (2012) Ranked 145 among 0.5 million, and 39 out of 1.2 million candidates respectively in National Engineering Entrance examinations.

## Relevant Coursework

Computational Linguistics, Algorithms, Parallel Computing, Probability and Statistics, Probabilistic Machine Learning, Machine Learning for Computer Vision

## Languages and Frameworks

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| Languages | Python, Java, C++, C, Bash (shell scripting) |
| Frameworks | PyTorch, Tensorflow, scikit-learn, Git |

## Extra Curricular Experience

- Former National Record holder for Rubik's Cube one-handed and fewest moves Solving (2013). Also, coordinated the activities of the Rubik's Cube Hubby Group on campus, including organizing an official World Cube Association Competition
- Actively involved in Literary Discussion Group at IIT Kanpur (2013-2016)
- Regular participant in sprint distance triathlons and up to half marathon distance runs.

## References

Available on Request