

PRANAV MANERIKER

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pranavmaneriker.github.io

RESEARCH INTERESTS

Natural Language Processing, Structured Data Management, Few-Shot Learning, Network Science

EDUCATION

The Ohio State University

PhD in Computer Science and Engineering. *GPA: 4.0/4.0*

August 2018 | Present

Advisor: Dr. Srinivasan Parthasarathy

IIT Kanpur

B. Tech. Computer Science and Engineering. *GPA: 9.2/10*

June 2012 | Jun 2016

Minor in English Literature

EXPERIENCE

The Ohio State University

Research Assistant

Columbus, Ohio

Aug 2018 | Present

- Ontology and relation modeling in transfer learning settings
- Semantic and stylistic analysis of text and intent in text

Microsoft Research

Research Intern

Redmond, Washington

May 2020 | Aug 2020

- Work currently under NDA

Amazon

Applied Scientist Intern

Seattle, Washington

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

Research Scientist

Bengaluru, India

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 of systems
- Work resulted in multiple patents and publications

IIT Kanpur

Teaching Assistant, Introduction to Programming

Teaching Assistant, Data Structures and Algorithms

Kanpur, India

Jan 2016 | Apr 2016

Aug 2015 | Nov 2015

PUBLICATIONS

1. Nikhita Vedula, Nedim Lipka, **Pranav Maneriker**, Srinivasan Parthasarathy, **Open Intent Extraction from Natural Language Interactions**, The Web Conference (WWW) 2020, **Best Paper Award**
2. Ritwick Chaudhry, Sumit Shekhar, Utkarsh Gupta, **Pranav Maneriker**, Prann Bansal, Ajay Joshi **LEAF-QA: Locate, Encode & Attend for Figure Question Answering**, Winter Conference on Applications of Computer Vision (WACV) 2020
3. Byung-Doh Oh*, **Pranav Maneriker***, Nanjiang Jiang*. **THOMAS: The Hegemonic OSU Morphological Analyzer using Seq2seq**, SIGMORPHON Workshop, Association for Computational Linguistics (ACL) 2019

4. **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
5. Nikhita Vedula, **Pranav Maneriker**, Srinivasan Parthasarathy. **BOLT-K: Bootstrapping Ontology Learning via Transfer of Knowledge**, The Web Conference (WWW) 2019
6. Paridhi Maheshwari, Nitish Bansal, Surya Dwivedi, Rohan Kumar, **Pranav Maneriker**, Balaji Vasani Srinivasan. **Exemplar Based Experience Transfer**, Intelligent User Interfaces (IUI) 2019
7. Balaji Vasani Srinivasan, **Pranav Maneriker**, Kundan Krishna, Natwar Modani. **Corpus-based Content Construction**, International Conference on Computational Linguistics (COLING) 2018
8. 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)
9. Gaurush Hiranandani, Kumar Ayush, Chinnaobireddy Varsha, Atanu Sinha, **Pranav Maneriker**, Sai Varun Reddy Maram **Enhanced Personalized Targeting Using Augmented Reality**, Poster, IEEE International Symposium on Mixed and Augmented Reality (ISMAR) 2017
10. Atanu Sinha, Meghanath Macha, **Pranav Maneriker**, Sopan Khosla, Avani Samdaria, Navjot Singh. **Anti-Ad Blocking Strategy: Measuring its True Impact**, 2017 TargetAd and AdKDD (KDD workshop)
11. Gaurush Hiranandani, **Pranav Maneriker**, Harsh Jhamtani. **Generating Appealing Brand Names**, Computational Linguistics and Intelligent Text Processing (CICLing) 2017
12. Natwar Modani, **Pranav Maneriker**, Gaurush Hiranandani, Atanu Sinha, Utpal, Vaishnavi Subramanian, Shivani Gupta. **Summarizing Multimedia Content** Web Information Systems Engineering (WISE) 2016

PATENTS

- N Modani, V Subramanian, S Gupta, **P Maneriker**, Utpal, G Hiranandani, A Sinha, **Multimedia Document Summarization**, US Patent No. 10,762,283. 2020
- **P Maneriker**, R Sasidharan, A Sinha, **Facilitating changes to online computing environment by assessing impacts of temporary interventions**, US Patent App. 16/253,467. 2020
- **P Maneriker**, A Natarajan, V Gupta, K Basava Raj, **Predicting style breaches within textual content**, US Patent No. 10,650,094. 2020
- **P Maneriker**, V Vinay, S Khosla, N Chhaya, N Modani, C Huesler, BV Srinivasan, A Natarajan, **Fact Replacement and Style Consistency Tools**, US Patent App. 16/123,966. 2020
- R Sinha, **P Maneriker**, D Singal, A Sinha, **Identifying high value segments in categorical data**, US Patent App 16/008,601. 2019
- BV Srinivasan, **P Maneriker**, N Modani, K Krishna, **Constructing content based on multi-sentence compression of source content**, US Patent App. 15/854,320. 2019
- R Sinha, V Palanciuc, **P Maneriker**, M Dash, T Mohandoss, D Singal, **Accurate and interpretable rules for user segmentation**, US Patent App. 15/837,929. 2019
- A Sinha, M Yadagiri, **P Maneriker**, S Khosla, A Samdaria, N Singh, **Techniques to quantify effectiveness of site-wide actions**, US Patent App. 15/819,808. 2019
- 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, **Determining quality of a summary of multimedia content**, US Patent No. 9,454,524. 2016

SERVICE

- Reviewer, AAAI 2021
- Subreviewer, WWW 2020
- Volunteer, SIGIR 2019

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 22nd 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, Optimization, Reinforcement Learning

LANGUAGES AND FRAMEWORKS

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 (up to) half marathon distance runs.