Pranav Maneriker

maneriker.1@osu.edu   pranavmaneriker.github.io

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

- 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, to appear

- 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

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 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

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 sprint distance triathlons and up to half marathon distance runs.

References

Available on Request