



# SWATI MISHRA

[swati@infosci.cornell.edu](mailto:swati@infosci.cornell.edu) | [www.swati-mishra.com](http://www.swati-mishra.com) | +1-317-746-9792

---

## EDUCATION

---

**Ph.D. Information Science**, Cornell University, USA. 2018 - Present

**M.S. Computer Science**, Cornell University, USA. 2018 - 2021

**M.S. Human Computer Interaction**, Indiana University, USA. 2016 - 2018

**B. Tech. Electronics and Communication Engineering**, Dr. A.P.J. Abdul Kalam TU India. 2005 - 2009

---

## PUBLICATIONS

---

- Designing Interactive tools for Transfer Learning for ML Non-experts. **Mishra, S.**, Rzeszotarski J. (2021) *ACM Conference on Human Factors in Computing Systems (ACM CHI)* **Best Paper**
  - Crowdsourcing and Evaluating Concept-driven Explanations of ML Models. **Mishra, S.**, Rzeszotarski J. (2021) *ACM Conference on Computer Supported Cooperative Work. (ACM CSCW)*
  - Towards Natural Language Interactions for Qualitative Text Analysis. **Mishra, S.**, Rzeszotarski J. (2020) *Workshop on Artificial Intelligence for HCI: A Modern Approach ACM Conference on Human Factors in Computing Systems (ACM CHI)*
  - Concept-Driven Visual Analytics: an Exploratory Study of Model- and Hypothesis-Based Reasoning with Visualizations. Choi, I., Childers, T., Raveendranath, N., **Mishra, S.**, Harris, K., Reda, K. (2019) *ACM Conference on Human Factors in Computing Systems (ACM CHI)*
  - Toward Concept Driven Visual Analytics. Choi, I., **Mishra, S.**, Harris, K., Raveendranath, N., Childers, T., Reda, K. (2018) *IEEE Visualization Conference (IEEE VIS)*
  - Full Body Interaction Beyond Fun: Engaging Museum Visitors in Human-Data Interaction. **Mishra, S.**, Cafaro, F. (2018) *ACM Conference on Tangible, Embedded, and Embodied Interaction (ACM TEI)*
  - Advanced Algorithms for Micro Mouse Maze Solving. **Mishra, S.**, Bande, P., (2009) *International Conference on Embedded Systems & Applications.*
  - Mobile controlled smart device for multiple device regulation. Tohan, N., **Mishra, S.**, Bande, P., Henry, R., (2009) *International Conference on Recent Advances in Material Processing Technology.*
  - Maze solving algorithms for Micro Mouse Maze. **Mishra, S.**, Bande, P., (2008) *IEEE Conference on Signal Image Technology and Internet Systems (IEEE SITIS)*
- 

## SKILLS

---

**Software Skills:** C/C++, Python (nltk, sklearn, pytorch, keras, bokeh), Javascript/D3.

**Data Domains:** Computer Vision, Natural Language Processing.

**Hardware Skills:** Graphics Processor (GPU), Digital Signal Processor (DSP), Embedded Engine (EVE).

---

## PROFESSIONAL EXPERIENCE (8+ YEARS)

---

May 2021 - Aug 2021	<b>Incoming AI Scientist Intern, Healthcare</b> Emerging Technologies Group, IQVIA, USA
Aug 2018 - Present	<b>Graduate Research Assistant, Human Centered-Computing</b> Computing and Information Science, Cornell University, USA
May 2017 - Aug 2017	<b>Product Design Intern, Healthcare</b> Knowledge Engineering Labs, Indiana, USA
Aug 2016 - May 2018	<b>Research Assistant, Human Centered-Computing</b> School of Informatics and Computing, Indiana University, USA
Jun 2015 - Jul 2016	<b>Module Team Lead, Advanced Drivers Assistance Systems</b> Continental AG Research and Development Center, India
Oct 2012 - May 2015	<b>Specialist Engineer, Advanced Drivers Assistance Systems</b> Mando Research and Development Center, India
Aug 2011 - Sep 2012	<b>Technical Consultant, Embedded Systems</b> Purple Leap, Pearson - Educomp JV, India
Jan 2010 - Aug 2011	<b>Systems Engineer, Embedded Systems</b> Infosys Technologies Pvt. Ltd. India
Jun 2009 - Dec 2009	<b>Research Assistant, Embedded Systems</b> Laboratories for Applied Research in Electronics, India

---

## AWARDS AND ACKNOWLEDGEMENTS

---

- Best Paper Award at CHI 2021, Yokohama, Japan.
- Received Cornell University Fellowship Award 2018 - 2019
- Contribution to Aiding Reasoning about Correlation and Causation NSF Eager grant #1848898
- Contribution to Concept-Driven Visual Analysis NSF CRII grant #1755611
- Indiana University Non- Resident Graduate Scholarship Award 2017 & 2016
- Richard Tapia Diversity in Computing Conference Travel Award 2017
- Grace Hopper Celebration of Women in Computing Conference Travel grant 2017
- Mando Korea (South) Outstanding Paper Presentation Award 2014 & 2015
- Outstanding Contribution to Mando India Award for research on Pedestrian Detection Systems 2014

---

## COMMUNITY SERVICE

---

- Cornell Information Science Graduate Student Association (ISGSA) Officer and Seminar Coordinator.
- Organized 22 workshops and seminars across India for engineering students of underrepresented minority groups, on Embedded Robotics Programming, Machine Learning and Computer Vision.
- A National Level Basket Ball Player, participating and winning in 3 National and 11 State tournaments (State Captain for 2 years).
- Program Coordinator of Entrepreneur Development Program conducted by Jagrati Gramodyog Seva Sansthan (a non-profit organization) helping youth in rural India establish small scale entrepreneurs.