

Inkit Padhi

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Employment

- 2019 *IBM Research*
Senior Research Engineer, Jul. 2020 - present
Advisory Research Engineer, Jan. 2019 - Jun. 2020
- 2016 *IBM, watsonx Assistant / Conversation*
Advisory Software Engineer, Nov. 2017 - Dec. 2018
Staff Software Engineer, Jun. 2016 - Oct. 2017
Research Intern, May. 2015 - Aug. 2015

Notable Publications

(See a full list of publication [here](#))

- EMNLP '24 *Value Alignment from Unstructured Text.*
[I. Padhi](#), KN. Ramamurthy, P. Sattigeri, M. Nagireddy, P. Dognin, K. Varshney
- NeurIPS '24 *WikiContradict: a benchmark for evaluating LLMs on real-world knowledge conflicts from wikipedia*
Y. Hou, A. Pascale, J. Camerero-Cano, 3 others, [I. Padhi](#), P. Sattigeri
- IJCAI '24 *ComVas: Contextual Value Alignment System. (Demo)*
[I. Padhi](#), P. Dognin, J. Rios, R. Luss, 5 others, K Varshney, D. Bouneffouf
- NeurIPS '23 *The impact of positional encoding on length generalization in transformers.*
A. Kazemnejad, [I. Padhi](#), KN. Ramamurthy, P. Das, S. Reddy
- Nat. Mach. *Large-Scale Chemical Language Representations Capture Molecular Structure and Properties.*
Intell. '22
J. Ross, B. Belgodere, V. Chenthamarakshan, [I. Padhi](#), Y. Mroueh, P. Das
- Nat. Biomed. *Accelerated antimicrobial discovery via deep generative models and Eng. '21 molecular dynamics simulations.*
P. Das, T. Sercu, K. Wadhawan, [I. Padhi](#), 10 others, A. Mojsilovic
- ICASSP '21 *Tabular transformers for modeling multivariate time series.*
[I. Padhi](#), Y. Schiff, I. Melynk, M. Rigotti, Y. Mroueh, 3 others, E. Altman
- AAAI '21 *Generate Your Counterfactuals: Towards Controlled Counterfactual Generation for Text*
N. Madaan, [I. Padhi](#), N. Panwar, D. Saha
- ACL '18 *Fighting Offensive Language on Social Media with Unsupervised Text Style Transfer.*
C. dos Santos*, I. Melynk*, [I. Padhi](#)* (* equal contribution)
- EMNLP '16 *Does string-based neural MT Learn Source Syntax?*
X. Shi, [I. Padhi](#), K. Knight

Blog Posts

- 2023 *An AI foundation model that learns the grammar of molecules* [\[Link\]](#)
P. Das, Y. Mroueh, [I. Padhi](#), V. Chenthamarakshan, J. Ross, B. Belgodere
- 2021 *IBM researchers check AI bias with counterfactual text* [\[Link\]](#)
[I. Padhi](#), N. Madaan, N. Panwar, D. Saha; IBM Research Blog
- 2021 *Accelerated Discovery of Novel & Selective Antimicrobials using AI* [\[Link\]](#)
P. Das, [I. Padhi](#), H. Strobel; Research Communities by Springer Nature

Talks

- 2024 United Nations Statistical Commission Seminar, “*Foundation Models: Data Governance & Data Use*”

Competitions

- 2020 VizWiz Grand Challenge : 1st Place Award, *Image Captioning for Blind People* [\[Link\]](#)
P. Dognin, I. Melnyk, Y. Mroueh, I. Padhi., M Rigotti, J. Ross, Y. Schiff

Interns/Externs Mentored

- 2024 Raphael Sailer (*Edgemont High School*), Pro bono mentoring
- 2024 Bruce W. Lee (*UPenn*), Intern at IBM Research
- 2023 Amirhossein Kazemnejad (*Mila - McGill*), Extern IBM-Mila Collaboration