Vishakh Padmakumar

▬ Education

2020–Present **PhD Student**, *Center for Data Science, New York University (NYU)*, NY, *CGPA – 3.96/4.*
Advisor: Dr. He He
Area: NLP, Text Generation, Human Computer Interaction

2018–2020 **Masters in Computer Science**, *Courant Institute of Mathematical Sciences, New York University (NYU)*, NY, *CGPA – 3.95/4.*

2014–2018 **Bachelors in Information Technology**, *National Institute of Technology (NIT) Karnataka*, Surathkal, *CGPA – 8.75/10.*

▬ Experience

Publications

Machine-in-the-Loop Rewriting for Creative Image Captioning, *Paper*.
Vishakh Padmakumar, He He
NAACL 2022
Previously presented at Novel Ideas in Learning-to-Learn through Interaction - Workshop @ EMNLP 2021

Exploring the Role of Task Transferability in Large-Scale Multi-Task Learning.
Vishakh Padmakumar, Leonard Lausen, Miguel Ballesteros, Sheng Zha, He He, George Karypis
NAACL 2022

QuALITY: Question Answering with Long Input Texts, Yes!, *Paper*.
Richard Yuanzhe Pang, Alicia Parrish, Nitish Joshi, Nikita Nangia, Jason Phang, Angelica Chen, **Vishakh Padmakumar**, Johnny Ma, Jana Thompson, He He and Sam Bowman.
NAACL 2022

BBQ: A Hand-Built Bias Benchmark for Question Answering, *Paper*.
Alicia Parrish, Angelica Chen, Nikita Nangia, **Vishakh Padmakumar**, Jason Phang, Jana Thompson, Phu Mon Htut, Samuel R. Bowman
ACL Findings 2022

Unsupervised Extractive Summarization using Pointwise Mutual Information, *Paper*.
Vishakh Padmakumar, He He
EACL 2021

A comparison of methods in political science text classification: Transfer learning language models for politics, *Paper*.
Zhanna Terechshenko, Fridolin Linder, **Vishakh Padmakumar**, Michael Liu, Jonathan Nagler, Josh Tucker, Richard Bonneau
SSRN

Multi-Modal Content Similarities in Online Disinformation Campaigns, *Ext. Abstract*.
Cody Buntain, **Vishakh Padmakumar**, Richard Bonneau, Jonathan Nagler, Josh Tucker
ACM Conference on Collective Intelligence, June, 2020.

Positions Held

May-August 2022 **Applied Scientist Intern**, **Amazon Alexa AI**, Sunnyvale, CA.
○ *Mentor(s):* Yang Liu, Dilek Hakkani-Tur

May-Oct 2021	**Applied Scientist Intern**, **Amazon Web Services**, New York, NY.
	○ *Mentor(s):* Leonard Lausen, Miguel Ballesteros, George Karypis
May-Aug 2019	**Machine Learning Intern**, **Laer.AI**, New York, NY.
	○ *Mentor(s):* Igor Labutov, Bishan Yang
Oct 2018 - May 2020	**Graduate Research Associate**, **Center for Social Media and Politics, NYU**, New York, NY.
	○ *Mentor(s):* Richard Bonneau, Fridolin Linder, Zhanna Terechshenko
May-Jul 2017	**Software Development Intern**, **Microsoft - IDC**, Bangalore.
	○ *Mentor(s):* Vageesh Banga, Darshan Jawalebhoi
	○ Dynamics 365 team

Achievements

2022	Received the CDS Best Teaching Assistant award for the Spring 22 semester
2020-25	Received the NYU Data Science Fellowship
2020	Received the NYU Data Science Supplementary Fellowship Grant
2019	Semi-Finalist in the NYU Threesis Academic Challenge
2017 - 18	Convenor of the Association for Computing Machinery (ACM) - NITK Chapter
2017	Co-founded the Mozilla Campus Club at NITK to foster open source contributions.
2012-2018	Awarded the National Talent Search Scholarship by NCERT. Government of India

Other Selected Projects

Collaborative Poetry Writing With Instructions, *Under Review*.
Tuhin Chakrabarty, **Vishakh Padmakumar**, He He

Modular Sentence Summarization, *Under Review*.
Shuo Guan, **Vishakh Padmakumar**, He He

Scalar Controlled Text Generation, *Ongoing work*.
Vishakh Padmakumar, Richard Pang, He He, Ankur Parikh

Counterfactual Logit Pairing with Asymmetric Counterfactuals, *Paper*.
Vishakh Padmakumar, Lucius Bynum

Transfer of Reinforcement Learning in a Natural Language Action Space, *Paper*.
Vishakh Padmakumar, Francesco Preta

A Robust Approach to Open Vocabulary Image Retrieval with Deep Convolutional Neural Networks and Transfer Learning , *Paper*.
Vishakh Padmakumar, Rishab Ranga, Srivalya Elluru, Sowmya Kamath S
2018 Pacific Neighborhood Consortium Annual Conference and Joint Meetings (PNC). IEEE, 2018.

Open Source Contributions

Multiscale Multifractal Time Series Analysis.
○ Created and maintained the TSeriesMMA R package on the CRAN Project