Swapneel Mehta

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EDUCATION

NEW YORK UNIVERSITY
PhD in Data Science
(exp) Aug 2023 | New York, NY
Cum. GPA: 3.8/4

MUMBAI UNIVERSITY
BTech in Computer Science
June 2018 | Mumbai, India
Cum. GPA: 9.23/10

COURSEWORK

DOCTORAL
Machine Learning
Causal Inference
Inference and Representation
Math Tools for Data Science
Big Data
Probability and Statistics
(Instructor, funded by Google Research)
Unicode ML Summer School

UNDERGRADUATE
Artificial Intelligence
Graph Theory
Machine Learning
Operating Systems
Database Management Systems
Computer Networks + Labs
Computer Graphics + Labs
(Co-founder, FOSS Training Program)
Unicode

AWARDS

2023   **Google Research Innovator**
2023   WSDM Smart City Challenge
2020   IRIS-HEP Fellowship
2018   Oxford MLHEP Challenge
2018   **India's Top 33 Engineers, Economic Times**

SKILLS

Python (Pytorch) • MySQL • GCP •
Bash • BigQuery • Unix/Linux • Spark
• Django • HTML/CSS • AWS S3 •
Javascript • C++ • Java

LINKS

Github:// **swapneelm**
Twitter:// **@swapneel_mehta**
YouTube:// **swapneel_mehta**

EXPERIENCE

FOUNDER | SimPPL
Dec 2021 - Present | New York, NY

- Building civic integrity tools to audit influence operations, and media bias
- Working with VTDigger, Yale Daily News, Sunday Times, Deutsche Welle to build **Parrot Report** and other work (**summary**)
- Selected as a **Google Research Innovator**; awarded USD 35,000 in grants from AWS, Google, the **Wikimedia Fdn.**, and the **NYC Media Lab**

CERN, CMS EXPERIMENT | TSP Researcher (ML)
March 2018 - July 2019 | Geneva, Switzerland

- Developed graph neural networks for particle track reconstruction at the LHC
- Productionized the **DeepJet** ML framework; won awards from Google, Oxford.

NYU, CSMAP | Graduate Researcher
Feb 2021 – Present | New York, NY

- Identify the causal effect of feedback on low quality news posts on Reddit.
- Identify the causal impact of Twitter's warning labels on Trump's tweets presented at **Stanford Trust and Safety Research Conf**.
- Infectious disease modeling with probabilistic programs accepted at **PROBPROG '21, MIT**.

INTERNSHIPS

TWITTER, CIVIC INTEGRITY | Machine Learning Engineer
June 2022 – Aug 2022 | New York, NY

- Improved the precision of their civic and health misinformation classifier (BigQuery ML) by **20%** scoring 1M+ tweets a week.

OXFORD, TORR VISION GROUP | Visiting Researcher
Aug 2021 – June 2022 | Oxford, UK

- Estimating the effects of adversarial behavior on recommender systems on Reddit presented in workshops at **ICML** and **DEFCON**, 2022.

ADOBE RESEARCH | Data Science Research Intern
May 2020 – Dec 2020 | New York, NY

- Trending Hashtag Recommendation for Videos; web-scraping, weakly-supervised learning, graph neural networks.
- First-author paper accepted at IEEE ISM; U.S. Patent App P10634-US.

IIT BOMBAY, MICROSOFT | Research Intern
May 2016 – May 2017 | New York, NY

- **Prof. S. Sahasrabudhe**, Automated evaluation of Blender 3D Modeling assignments; edX Prize Finalist, 2019.
- **Microsoft Research**: Google Analytics for the **Lokacart** D2C app for farmers.

SMOKESCREEN (ACQ. ZSCALER) | Cybersecurity / ML Intern
Nov 2016 – March 2017 | New York, NY

- Low-latency network scans and hostname generation for intelligent decoys.
- Automated deployment using custom-built modules integrated into the NASSCOM-DSCI award-winning IllusionBlack software, 3rd Gen., 2017.

REVIEWER

2023	AABI
2023	ICLR, AI4ABM Workshop
2023	AI+Local News Challenge
2022	AISTATS
2022	ICML, AI4ABM Workshop
2022	NeurIPS, WBRC
2019	Elsevier JPDC

ORGANIZING

2023	AI, Misinfo. & Policy Seminar
2023	ICLR AI4ABM Workshop
2023	Misinfo. Village, DEFCON
2023	NYU AI School 2023
2022	NeurIPS WBRC
2022	NYU AI School 2022
2022	AI for Everyone, C+J 2022
2021	NYU AI School 2021
2021	Unicode ML Summer School

TALKS

2023	McKinsey Guest Talk
2023	CCNY SASE "TED Talks"
2023	MozFest by Mozilla
2023	NYU Data Science Seminar
2023	Deutsche Welle (multiple)
2023	NYC Media Lab
2022	Graphika
2022	Truth and Trust Online Conf.
2022	Twitter, Health ML
2022	MIT Media Lab
2022	Stanford, T&S Research Conf.
2022	NYU Graduate Seminar
2022	Misinfo. Village, DEFCON
2022	Oxford, Torr Vision Group
2021	Twitter, Cortex
2021	Facebook, Probability
2021	Flatiron Comp. Bio. Group
2020	NYC AI Workshop
2020	NYU Data Science
2018	Mumbai University (multiple)

PUBLICATIONS

[1] S. Mehta, J. Bisbee, Z. Sanderson, R. Bonneau, J. Tucker, and J. Nagler. **Identifying the Causal Effects of Twitter's Interventions on Trump's Tweets**. *Working Paper*, 2023.

[2] S. Mehta, K. Aslett, R. Bonneau, J. Tucker, and J. Nagler. **Identifying the Causal Effects of Feedback Reduction on Posts containing Low-Quality News on Reddit**. *Working Paper*, 2023.

[3] S. Mehta, A. G. Baydin, R. Bonneau, J. Nagler, and P. Torr. **Estimating the Impact of Coordinated Inauthentic Behavior on Content Recommendations in Social Networks**. In *ICML 2022 Workshop AI for Agent-Based Modelling*, 2022.

[4] S. Mehta, S. Sarkhel, X. Chen, S. Mitra, V. Swaminathan, R. Rossi, A. Aminian, H. Guo, and K. Garg. **Open-domain Trending Hashtag Recommendation for Videos**. In *IEEE International Symposium on Multimedia (ISM)*, 2021.

[5] S. Mehta and N. Kasmanoff. **Covid-19 Modeling and Control via Policy Interventions**. In *International Conference on Probabilistic Programming (PROBPROG)*, pages https–probprog, 2021.

[6] D. Gandhi, R. Jain, J. Gala, J. Lalwani, and S. Mehta. Expanding access to ml research through student-led collaboratives. In *NeurIPS 2022 Workshop on Broadening Research Collaborations*, 2022.

[7] A. Ganeriwalla and S. Mehta. Application of ols regression and var models to analyse the economies of varying political regimes. *Journal of Student Research*, 10(4), 2021.

[8] S. Mehta, P. Kothuri, and D. L. Garcia. A big data architecture for log data storage and analysis. In *Integrated Intelligent Computing, Communication and Security*, pages 201–209. Springer, Singapore, 2018.

[9] S. Mehta, C. Raman, N. Ayer, and S. Sahasrabudhe. Auto-grading for 3d modeling assignments in moocs. In *2018 IEEE 18th International Conference on Advanced Learning Technologies (ICALT)*, pages 51–53. IEEE, 2018.

[10] S. Mehta, P. Kothuri, and D. L. Garcia. Anomaly detection for network connection logs. *arXiv preprint arXiv:1812.01941*, 2018.

[11] S. Mehta, M. Verzetti, J. Kieseler, and M. Stoye. Deepjet: A machine learning environment for high-energy physics. 2018.

[12] M. Feickert, M. Paganini, S. Mehta, K. Cranmer, J. Low, D. Guest, B. Stienen, S. Templ, R. Di Sipio, M. Stoye, et al. iml-wg/hep-ml-resources: 2019. 2020.

[13] J. Kieseler, M. Stoye, M. Verzetti, P. Silva, S. Mehta, A. Stakia, Y. Iiyama, E. Bols, S. Qasim, H. Kirschenmann, et al. Deepjetcore. *Zenodo, doi*, 10, 2020.

GRANTS

2023	Wikimedia Foundation 'WikiCred' Grant	USD 10,000
2023	Deutsche Welle	EUR 4,950
2022	GCP, AWS, Algovera Research Grants	USD 9,000
2022	JournalismAI	USD 2,000
2022	The Sunday Times	USD 2,000
2021	UK Research & Innovation Grant (w/ Oxford TVG)	GBP 23,000
2021	NYC Media Lab AI + Local News Challenge	USD 7,500
2021	Google Research India	INR 85,000