

PRATEEK GUPTA

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EDUCATION

University of Oxford

Doctor of Philosophy, Engineering Science

Awards: The Alan Turing Institute (Full scholarship)

Oxford, U.K

Oct '17 - Present

Columbia University

Master of Science, Operations Research, GPA: 3.96/4.0

Coursework: Statistical Machine Learning, Analysis of Algorithms, Probabilistic Graphical Models

Research: Modeled topic correlations across different sections of an article to capture click baits 📄

New York, U.S

Feb '15

Indian Institute of Technology, Delhi

Bachelor Of Technology, Industrial Engineering, GPA: 8.69/10.0

Awards: Roll of Honor, Director's Merit Award, Color, Blazer, Significant Contribution (Sports)

New Delhi, India

May '13

SELECTED PUBLICATIONS

Hybrid Models for Learning to Branch 📄 📄

NeurIPS, 2020

Prateek Gupta, Maxime Gasse, Elias B. Khalil, M. Pawan Kumar, Andrea Lodi, Yoshua Bengio

Predicting Infectiousness for Proactive Contact Tracing 📄 📄

ICLR, 2020

Yoshua Bengio, Prateek Gupta, Tegan Maharaj, Nasim Rahaman, Martin Weiss, et al.

Deep Metric Learning: Revisiting Training & Generalization 📄 📄

ICML, 2020

Karsten Roth, Timo Milbich, Samarth Sinha, Prateek Gupta, Björn Ommer, Joseph Paul Cohen

EXPERIENCE

Montréal Institute of Learning Algorithms (Mila)

Montréal, CA

Visiting Researcher, D.Phil thesis (Prof. Andrea Lodi & Prof. Yoshua Bengio) *June '19 - Nov '20*

- Improved the deep learning architectures for superior integration with discrete optimization solvers*
- In a multidisciplinary team, proposed and validated a ML based contact tracing method for Covid-19; COVI, the app that implements it, was a top candidate considered by the Québec government*

GenesisMedia LLC, Advertising technology startup

New York, U.S

Data Scientist

July '15 - Oct '17

Proposed and executed a myriad of projects touching business (e.g. website categorization for sales forecasting, data visualizations) to applied research (e.g. RL based ad placement, user value modeling)

The New York Times

New York, U.S

R&D Data Scientist Intern

May '14 - Aug '14

Designed a scalable framework of NLP micro-services (e.g. article labeling) to power an investigative text editor that retrieves relevant articles from The Times' archives in real time; Code: 📄 Demo: 📄

MISCELLANEOUS

Languages/Frameworks

Python, C/C++, R, PyTorch, Tensorflow, JS, D3, Flask, Bash, SQL

Online Handles

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Team Competitions

Cornell Tech Hackathon (Winner), Table Tennis (Silver), Rowing (Blade) HKBU Entrepreneurship Pitching Competition, Hong Kong (Winner)

AI Mentorship

📄 Gepeto Interactive, CA (Game design to support cognitive development in autistic kids), 📄 Areix, HK (Smart Financial Advisor)

Research interests

AI/technology for social good, Deep Learning, Operations Research