

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 📄 📄

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

NeurIPS, 2020

Predicting Infectiousness for Proactive Contact Tracing 📄 📄

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

ICLR, 2020

Deep Metric Learning: Revisiting Training & Generalization 📄 📄

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

ICML, 2020

EXPERIENCE

Montréal Institute of Learning Algorithms (Mila)

Visiting Researcher, D.Phil thesis (Prof. Andrea Lodi & Prof. Yoshua Bengio)

Montréal, CA

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

Data Scientist

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)

New York, U.S

July '15 - Oct '17

The New York Times

R&D Data Scientist Intern

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: 📄

New York, U.S

May '14 - Aug '14

MISCELLANEOUS

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

Online Handles 📄 pg2455 📄 pg2455 📄 link2prateek 📄 pguptacs 📄 fvn0COgAAAAJ

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