Prateek Gupta

🚱 www.pgupta.info 🖂 pgupta@robots.ox.ac.uk 🛕 Exeter College, Oxford, UK 🔊 +44 744 079 5508 **EDUCATION** University of Oxford Oxford, U.K Oct '17 - Present PhD, Engineering Science Dissertation Topic: Deep Learning for Mixed-Integer Linear Programming (MILP) Advisors: M. Pawan Kumar, Andrea Lodi, Yoshua Bengio • Awarded The Alan Turing Institute doctoral scholarship (7% acceptance rate) • 2nd runner-up in the UK-wide Doctoral Researcher Awards, 2021 • Research interests: Machine learning for Combinatorial Optimization, agent-based models, simulations, and search algorithms. Devising novel ways to use AI for social good. Columbia University New York, U.S. Master of Science, Operations Research, GPA: 3.96/4.0 Feb '15 Indian Institute of Technology, Delhi New Delhi, India Bachelor Of Technology, Industrial Engineering, GPA: 8.69/10.0 May '13 Awards: Roll of Honor, Director's Merit Award, Color, Blazer, Significant Contribution (Sports) SELECTED PUBLICATIONS 3 Lookback for Learning to Branch TMLR, 2022 Prateek Gupta, Elias Khalil, Didier Chetélat, Maxime Gasse, Yoshua Bengio, Andrea Lodi, M. Pawan Kumar Predicting Infectiousness for Proactive Contact Tracing ICLR (Oral), 2021 Yoshua Bengio, Prateek Gupta, Tegan Maharaj, Nasim Rahaman, Martin Weiss, et al. Hybrid Models for Learning to Branch **[27]** NeurIPS, 2020 Prateek Gupta, Maxime Gasse, Elias B. Khalil, M. Pawan Kumar, Andrea Lodi, Yoshua Bengio EXPERIENCE July '22 - Nov' 22 DeepMind: Research Scientist Intern in AI for Science Advisors: Alhussein Fawzi, Theophane Weber London, UK Proposed and implemented machine learning techniques for search algorithms to discover novel objects Oct '17 - Present Learning to Branch Advisors: Pawan Kumar, Andrea Lodi & Yoshua Bengio [TMLR, 2022] [NeurIPS, 2020] Devising ways to automate heuristic learning using deep learning methods for MILP solvers Oct '17 - Present AI for Social Good Advisor: Yoshua Bengio [ICLR (Oral), 2021] [AAAI CCAI Symposium, 2022] Designing ways to use AI to solve societally relevant problems. Some of the works include Proactive Contact Tracing \blacksquare , AI for Global Climate Cooperation Challenge, Θ , or a market-based approach to discover true carbon price. University of Oxford and CambridgeSpark § Oxford/London, U.K. April '21 - Present Teaching Assistant / Content Creator Designed/tutored data science courses, tutorials, and hackathons for professionals and students. MISCELLANEOUS Python, Jax, PyTorch, C, Tensorflow, Git, D3, Bash, SQL Languages **Online Handles** pg2455 pg2455 lim link2prateek y pguptacs y fvn0COgAAAAJ

Team Competitions Cornell Tech Hackathon (Winner), Table Tennis (Silver), Rowing (Blade)

HKBU Entrepreneurship Pitching Competition, Hong Kong (Winner)

–[all icons link to a web address (paper: 🗐, codebase: 🔾, video: 📭, blog: 🔊)]–[* represents published work]–