# Dr. Utkarsh Upadhyay AI/ML Problem Solver

### Work & Education

Oct '19 – Jan '23	CTO/co-founder of Reason.al
Jan~'15-Dec'~22	PhD Candidate at MPI-SWS, supervised by Dr. Manuel Gomez Rodriguez
Aug '18 – Nov '18	Academic Research Program Collaborator at Yahoo! Research (Oath Holdings)
Apr '12 – Dec '14	Software Developer at Better AG, web-client development and data visualisation
Aug '10 – Feb '11	Intern at CCIL-NEC, Japan on Information diffusion on Twitter
Sept '09 – Feb '12	MS in Computer Science at EPFL, Switzerland; GPA: 5.7/6
May '08 – July '08	Intern at Microsoft Research, Redmond on $RoboClone$ (RoboCopy replacement)
Aug '05 – May '09	B.Tech. in Electrical Engg. from Indian Institute of Technology, Kanpur; CPI: 9.5/10

#### Scholastic achievements

2017-19	Yahoo! Academic Research Program (ARP) Collaborator
2012	Awarded $Prix\ ECLA\ Informatique$ for highest GPA in Computer Science MS at EPFL
2009-10	Awarded the Academic Excellence scholarship for Masters studies at EPFL
2009	Silver medal at the programming competition ACM-SWERC '09
2005-09	Recipient of the Aditya Birla Scholarship (Given to 10 students all over India)
2005-06	Recipient of the Academic Excellence Award at IITK
2005	Secured $108^{th}$ rank in Joint Entrance Examination for IITs (Percentile: $99.97\%$ )

#### Current Interests

AI/ML, TensorFlow/PyTorch, Python, JavaScript, HTML/CSS

## Selected Publications

- A. Singh, J. B. Hauge, M. Wiktorsson, U. Upadhyay. Optimizing local and global objectives for sustainable mobility in urban areas, Journal of Urban Mobility 2022.
- U. Upadhyay, G. Lancashire, C. Moser, M. Gomez-Rodriguez. Large-scale randomized experiment reveals that machine learning-based instruction helps people memorize more effectively, Nature (npj) Science of Learning 2021.
- P. Virtanen, et al. & U. Upadhyay. SciPy 1.0: fundamental algorithms for scientific computing in Python, Nature Methods 2020.
- U. Upadhyay, R. Busa-Fekete, W. Kotlowski, D. Pal, B. Szorenyi. Learning to Crawl. Oral, AAAI 2020.
- B. Tabibian, U. Upadhyay, A. De, A. Zarezade, B. Schölkopf, M. Gomez-Rodriguez. *Enhancing human learning via spaced repetition optimization*. PNAS 2019.
- U. Upadhyay, A. De, M. Gomez-Rodriguez. Deep Reinforcement Learning of Marked Temporal Point Processes. NeurIPS 2018.
- N. Du, H. Dai, R. Trivedi, U. Upadhyay, M. Gomez-Rodriguez, Le Song. Recurrent Temporal Point Process. KDD 2016.
- R. Khalili, N. Gast, M. Popovic, U. Upadhyay, Jean-Yves Le Boudec. *MPTCP is not Pareto-optimal: Performance issues and a possible solution*. **Best Paper Award**, CoNEXT 2012.

#### Interests & Activities

- Recreational programming, visualization & data mining
- Co-organizer/speaker at ML Summer School 2016/17
- Member of Counselling Service, IIT Kanpur
- OSS Contributor: O musically-ut
- O Won at StartUp day, Saarbrücken 2015
- Active on StackOverflow

Email: mail [at] musicallyut.xyz Homepage: musicallyut.xyz