Anmol Kagrecha

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Fourth-year PhD candidate at the Electrical Engineering Department at Stanford University.
Interested in crowdsourcing, bandit learning, and reinforcement learning.

Education

- **Stanford University** (2020-present)
  Advisor: Prof. Benjamin Van Roy
  Robert Bosch Stanford Graduate Fellow
  Ph.D. in Electrical Engineering
  GPA: 4.015/4.0
- **Indian Institute of Technology Bombay** (2015-2020)
  Advisor: Prof. Jayakrishnan Nair
  B.Tech and M.Tech in Electrical Engineering
  Specialization: Communication and Signal Processing
  GPA: 9.68 / 10.0

Scholastic Achievements and Awards

- Recipient of the **Robert Bosch Stanford Graduate Fellowship**
- **Institute Silver Medal by IIT Bombay** for best academic standing among the Dual Degree (B.Tech and M.Tech) students in Electrical Engineering graduating in 2020
- **Undergraduate Research Award** for exceptional work in the Dual Degree Project at IIT Bombay in 2020
- **Department Academic Mentorship Program's Certificate of Appreciation** at IIT Bombay in 2020
- **Certificate of Excellence in Teaching Assistantship** for an undergraduate course on Data Analysis and Interpretation at Electrical Engineering Department, IIT Bombay in 2020
- **Electrical Engineering Department's Roll of Honour** for academic year 2018-19 at IIT Bombay.

Preprints

- Adaptive Crowdsourcing Via Self-Supervised Learning
  A.K., Henrik Marklund, Benjamin Van Roy, Hong Jun Jeon, and Richard Zeckhauser
  arXiv

Publications

- Constrained regret minimization for multi-criterion multi-armed bandits
  A.K., Jayakrishnan Nair and Krishna Jagannathan
  Springer Machine Learning
- Statistically Robust, Risk-Averse Best Arm Identification in Multi-Armed Bandits
  A.K., Jayakrishnan Nair and Krishna Jagannathan
  IEEE Transactions on Information Theory
- Bandit algorithms: Letting go of logarithmic regret for statistical robustness
  Ashutosh Kumar, Jayakrishnan Nair, **A.K.**, and Krishna Jagannathan
  International Conference on Artificial Intelligence and Statistics (AISTATS 2021)

- "Please come back later": Benefiting from deferrals in service systems
  A.K. and Jayakrishnan Nair
  International Conference on Communication Systems & Networks (COMSNETS 2020)
- Distribution oblivious, risk-aware algorithms for multi-armed bandits with unbounded rewards
  A.K., Jayakrishnan Nair and Krishna Jagannathan
  Advances in Neural Information Processing Systems 2019 (NeurIPS 2019)

Teaching Assistantships

- Reinforcement Learning: Behaviors and Applications — winter 2024, fall 2022
- Bandit Learning: Behaviors and Applications — fall 2023

In close coordination with the instructor, I formulated homework and exam problems and then developed starter code for them. Other duties included conducting weekly office hours to address conceptual doubts and providing hints for homework problems.

Relevant Coursework & Programming Skills

- **Courses**: Reinforcement learning, information theory, optimization, graduate-level probability
- **Programming languages and frameworks**: Python, NumPy, CvxPy, Vim, Talon speech-to-text