Yutong Dai

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EDUCATION

Lehigh University, PA, USA   Sept.2019 – Dec.2023
Ph.D. in Industrial and Systems Engineering
Advisor: Daniel P. Robinson

University of Illinois at Urbana-Champaign, IL, USA   Sept.2017 – May.2019
M.S. in Statistics

Sichuan University, Chengdu, China   Sept.2013 – Jun.2017
B.S. in Mathematics with honors (concentration in Statistics)

WORKING EXPERIENCE

Salesforce   Jan.2024 – Now
Position: Applied Scientist   Palo Alto, CA
Job Duties:

- Own and pursue ambitious, long-term research goals.
- Develop solutions for real-world, large-scale problems.
- As needed, lead teams to deliver on more complex pure and applied research projects.

Projects

- Developed algorithm-driven solutions to generate contests that automate business processes; applied solutions to products including Salesforce Flow and Tableau Visualizaiton
- Partnered with engineering and product teams to refine product design and deployment to cut the cost-to-serve and improve user experience
- Contributed to research projects that develop models with a strong ability to understand multimodal data

Adobe   May.2023 – Aug.2023
Position: Engineer Intern   San Jose, CA
Job Duties:

- Develop predictive models on large-scale datasets to address various business problems with statistical modeling and analytics techniques.
- Develop and implement scalable, efficient, and interpretable modeling algorithms that can work with large-scale data in production systems.
- Collaborate with product management and engineering groups to develop new products and features.

Project

- Benchmarked personalized ranking algorithms based on implicit feedback data from Adobe's products
- Developed a multi-objective optimization framework to improve the current ranking algorithms to accommodate the diverse needs of business partners
- Applied the multi-objective optimization method to Adobe's production data to not only improve the ranking lists' quality but also improve the ranking lists' diversity

Salesforce   May.2022 – Aug.2022
Position: Research Intern   Palo Alto, CA
Job Duties:

- Focus on pure research that incorporates into your PhD focus area.
- Work with a team of research scientists and engineers on projects that lead to submissions to top-tier conferences.

Project

- Proposed a novel method to tackle data heterogeneity with the class imbalance in personalized Federated Learning by combining the uniformity and semantics of class prototypes
- Developed a unified and extensible framework to test the state-of-the-art Federated Learning algorithms