Bashir Rastegar Panah

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Experiences	 ♦ Fiddler AI, Palo Alto, CA Data Scientist II Designed an outlier detection algorithm for high-dimensional and unstructured data. Designed drift detection methods for high-dimensional and unstructured data. Worked on improving various monitoring and explainability features in Fiddler platform. Implemented embedding methods for visualizing high-dimensional data in Fiddler platform.
	♦ Boston University, Boston, MA
	♦ Max Planck Institute SWS, Saarbrücken, GermanyFeb 2019 - May 2019 Internship Worked on operationalizing data protection regulations for learning systems. Developed a bandit framework for auditing data minimization in prediction models.
	♦ Fraunhofer IAIS, Sankt Augustin, Germany
	♦ University of Bonn, Germany
Education	♦ Boston University, Ph.D. Computer ScienceBoston, MA, 2021
	♦ University of Bonn, M.Sc. Computer Science Bonn, Germany, 2013
	♦ University of Isfahan, B.Sc. Software Engineering Isfahan, Iran, 2010
Skills	♦ Over 10 years of research and development experience in adopting data-driven solutions.
	♦ Fluent in Python and its various data science, natural language processing, scientific computing, machine learning, and visualization libraries.
	\diamond Strong background knowledge of machine learning, deep learning, signal processing, network science, and optimization.
	\diamond Experience of production code development on distributed and containerized architectures.
	♦ Worked in highly collaborative environments in both academia and industry.
Patent	"System and Method for Data Drift Detection to Improve Data Integrity for Data within a Database" (filed on Sept 2022)

Publications Responsible AI

- ⋄ "Auditing Black-box Prediction Models for Data Minimization Compliance" Bashir Rastegarpanah, Krishna P. Gummadi, Mark Crovella. NeurIPS 2021 ♥
- ⋄ "Fair Inputs and Fair Outputs: The Incompatibility of Fairness in Privacy and Accuracy" Bashir Rastegarpanah, Mark Crovella, Krishna P. Gummadi. FairUMAP 2020
- ⋄ "Fighting Fire with Fire: Using Antidote Data to Improve Polarization and Fairness of Recommender Systems" Bashir Rastegarpanah, Krishna P. Gummadi, Mark Crovella.
 WSDM 2019 ☼ ♠
- ♦ "Exploring Explanations for Matrix Factorization Recommender Systems" Bashir Rastegarpanah, Mark Crovella, Krishna P. Gummadi. **FATREC 2017** 🖟 🗘

Network Science

- ♦ "Collective Attention to Social Media Evolves According to Diffusion Models" Christian Bauckhage, Kristian Kersting, Bashir Rastegarpanah. **WWW 2014**
- ♦ "The Weibull as a Model of Shortest Path Distributions in Random Networks" Christian Bauckhage, Kristian Kersting, Bashir Rastegarpanah. *MLG 2013*