



THIS IS SUBJECT TO CHANGE -Please see website for most up-to-date program

Nov 22nd

10:00 AM

How to Represent Financial Securities in Form of Embeddings Using Graph Machine Learning

*Bhaskarjit Sarmah, Senior Data Scientist, **BlackRock***

Nov 22nd

10:00 AM

Building a Movie Recommendation System with Feature Stores*

*Danny Chiao, Eddie Esquivel, Engineering Lead, Sr. Solutions Architect, **Tecton***

* Includes Special Case Study: **How Shopify Uses Feast to Manage its ML Features**

*Abhin Chhabra Senior Data Engineer / Tech Lead, **Shopify***

Nov 23nd

10:00 AM

An Introduction to Drift Detection

*Ashley Scillitoe, Data science Research Engineer, Ed Shee, Head of Developer Relations, **Seldon***



*Colors Don't Apply

10:00 AM	Graph Neural Network Modeling in Drug Discovery using PyTorch <i>Dr. Nasim Abdollahi , Postdoctoral Fellow, ML Researcher, University of Toronto, Dr. Farnoosh Khodakarami, Computer Scientist and ML Researcher, Cyclica</i>
10:00 AM	Demystifying De-Identification <i>Patricia Thaine, Co-Founder & CEO, Private AI</i>
10:00 AM	Open Source Intelligent Application Delivery on Kubernetes <i>Arthur Vitui, Senior Data Scientist & Solution Architect Specialist, Todd Wilson Chief Strategist, Red Hat</i>
12:00 PM	Graph ML - The Next Level of Machine Learning <i>Jörg Schad, CTO, ArangoDB</i>
12:00 PM	Introduction to NLP & a Step by Step Implementation of a Real world Use Case from TELUS <i>Mahmudul Hasan, Lead Data Scientist, TELUS Business Marketing</i>
12:00 PM	Distributed Training with PyTorch <i>Shagun Sodhani, Research Engineer, Meta AI</i>
2:00 PM	Beyond the Basics: Data Visualization in Python <i>Stefanie Molin, Software Engineer / Data Scientist/ Author, Bloomberg</i>
2:00 PM	Time Series Anomaly Detection with Machine Learning <i>Angeline Yasodhara, Benjamin Ye, Research Scientists, Georgian</i>
2:00 PM	Hands workshop: Introduction to Kubernetes for MLOps <i>Eric Hammel, Asim Sultan, MLOps Engineers, Rocket Science Development</i>
4:00 PM	NLP for Healthcare: Challenges with Processing and De-identifying Clinical Notes <i>Chloé Pou-Prom, Data Scientist, Vaakesan Sundrelingam , Data Scientist, Unity Health Toronto</i>
6:00 PM	Iterating on NLP models from R&D to Production <i>Denys Linkov, ML Lead, Voiceflow</i>



Business & Strategy	Technical
Case Studies	Workshops

Exhibitor Demo Presentations & Speakers Corner
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November 29th: In Person, Toronto Canada

	Opening Welcome: David Scharbach, Executive Director, TMLS, Suhas Pai, 2022 Chair and CTO Bedrock AI		
9:45 am			
9:55 am	Rapid-Fire Ignite Keynotes		
	10:25 am Break		
10:55 am		<p>Saving Lives with ML: Applications and Learnings</p> <p>Muhammad Mamdani, VP, Data Science and Advanced Analytics; Director: Temerty Centre for AI Research and Education in Medicine; Professor</p> <p>Unity Health Toronto, University of Toronto</p>	
11:35 am	<p>Lightning Ignite Talks & Group Discussions</p> <p>Various Topics to be Covered</p>	<p>From Silo to Collaboration - Building Tooling to Support Distributed ML Teams at Twitch</p> <p>Shiming Ren, Chen Liu, Sr. Engineering Managers; Safety, MLOps and Infrastructure & Personalization and ML Infra</p> <p>Twitch</p>	<p>Saga: Continuous Construction and Serving of Large Scale Knowledge Graphs</p> <p>Ihab Ilyas, Professor, Head of Apple Knowledge Platform, ACM Fellow, IEEE Fellow</p> <p>Apple, University of Waterloo</p>
	12:05 pm Lunch Break Exhibition Brain-Dates via Whova App		
1:15 pm	<p>The Risks of Excluding the Disengaged from your Dataset</p> <p>Danielle Goldfarb, Global Affairs / Economic Policy Researcher</p> <p>RIWI (Real-Time Interactive Worldwide Intelligence)</p>	<p>The Application of Mobile Location Data for Vending Machine Site Selection and Revenue Optimization</p> <p>Nikita Medvedev, Winston Li Director of Advanced Analytics, Founder,</p> <p>Coca-Cola, Arima</p>	<p>Declarative Machine Learning Systems: Ludwig & Predibase</p> <p>Piero Molino, CEO</p> <p>Predibase</p>
1:50 pm	<p>Lightning Ignite Talks & Group Discussions</p> <p>Various Topics to be Covered</p>	<p>Real-time Machine Learning: Architecture and Challenges</p> <p>Chip Huyen, CEO, Author</p> <p>Claypot AI</p>	<p>Navigating the Tradeoff Between Privacy and Fairness in ML</p> <p>Jesse Cresswell, Senior Machine Learning Scientist</p> <p>Layer 6, TD Bank</p>
	2:30 pm Break Exhibition Brain-Dates via Whova App		
2:55 pm	<p>Drug Discovery and Disease Biology Panel Discussion</p>	<p>Optimal Beer Pricing: An Optimization Layer for Price Elasticities</p> <p>Eric Hart, Staff Data Scientist</p> <p>Anheuser-Busch</p>	<p>Outracing Champion Gran Turismo Drivers with Deep Reinforcement Learning</p> <p>Varun Raj Kompella, Senior Research Scientist</p> <p>Sony AI</p>
3:30 pm	<p>Sensitivity & Interpretability of AI-Models</p> <p>Hanieh Arjmand, ML Researcher</p> <p>Lydia.ai</p>	<p>How Freshbooks Built a Fully Automated ML Platform Using Kubeflow; A Declarative Approach to Development of End-to-end ML Pipelines.</p> <p>Valerii Podymov et al., Lead Data Scientist</p> <p>FreshBooks</p>	<p>PyScript for Data Science</p> <p>Sophia Yang Senior Data</p> <p>Anaconda</p>

Social Events


	Day 1 Program Ends Networking 	
4:15 - 5:30 pm	<p>Day 1 Wrap-up & Happy Hour Social Special Activities & Sponsor Parties!</p> 	



Business & Strategy	Technical
Case Studies	Workshops

Exhibitor Demo Presentations & Speakers Corner
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November 30th: In Person, Toronto Canada

9:45 am	Opening Welcome: David Scharbach, Executive Director, TMLS		
9:55 am	Rapid-Fire Ignite Keynotes		
	10.25 am Break		
10:55 am	<p>HOLD SPOT: <i>Scaling & Evolving the Machine Learning Platform at DoorDash</i></p> <p>Hien Luu, Head of Machine Learning Platform DoorDash</p>	<p><i>Artificial Intelligence & Digital Pathology: Making the Most of Limited Annotated Data</i></p> <p>Anne Martel, Professor, Tory Family Chair in Oncology, Faculty Affiliate, University of Toronto, Sunnybrook Research Institute, Vector Institute</p>	
11:35 am	<p><i>Lightning Ignite Talks & Group Discussions</i></p> <p>Various Topics to be Covered</p>	<p>HOLD SPOT: <i>Transforming The Retail Industry with Transformers</i></p> <p>Azin Asgarian, Applied Research Scientist Georgian</p>	<p><i>Interpretability Tools are Feedback Loops</i></p> <p>Jinen Setpal, ML Engineer DagsHub</p>
	12:05 pm Lunch Break Exhibition Brain-Dates via Whova App		
1:15 pm	<p><i>Marketplace Experimentation in Live Environments at SpotHero: Design, Methods, Lessons Learned</i></p> <p>Amish Popli Data Scientist, SpotHero</p>	<p><i>Confidential and Private Collaborative Machine Learning</i></p> <p>Adam Dziedzic, University of Toronto and Vector InstituteP</p>	
1:50 pm	<p><i>Panel: Managing AI and the Associated Risks in a Regulatory Environment</i></p>	<p><i>Assessing Alignment of Climate Disclosures Using NLP for the Financial Markets</i></p> <p>Quoc Tien Au & Aysha Cotterill, Data Scientist, Data Analyst Manifest Climate</p>	<p><i>Latent User Intent Modeling in Recommender Systems</i></p> <p>Bo Chang, Software Engineer Google Brain</p>
2:25 pm	<p><i>Solving Product Substitutions, the #1 problem in Grocery e-Commerce, through Self-Supervised ML</i></p> <p>Jawad Ahmed Staff Applied Scientist, Loblaw Digital</p>		
3:00 pm	Closing Remarks		
5:15 - 7:30 pm	Career Fair & Expo! 		

This program will be updated and is subject to changes. Please refer to website

READ FULL TALK ABSTRACTS AT
www.torontomachinelearning.com