

Term Fall | Issue 1 | 19th October 2020

Al Ethics

The Path to Ethical AI Starts with Collaboration

In truth, the conversation around ethical AI typically boils down to the societal issues such as data collection, cyberattacks on critical infrastructure, and inherent bias in code. When we talk about ethical AI, we are talking about preventing these things from happening. We are talking about creating an AI system and rules that help manage these issues rather than create them.

Read the full story

Implementing Ethical and Trusted Al- Enabled Systems Remains Inconsistent

COVID-19 has put a spotlight on ethical issues emerging from the increased use of Al applications and the potential for bias and discrimination. A report from the Capgemini Research Institute found that in 2020, 45% of organizations have defined an ethical charter to provide guidelines on Al development, up from 5% in 2019, as businesses recognize the importance of having defined standards across industries.

Read the full story

The state of AI in 2020: Democratization,Industrialization, and Artificial General Intelligence

The State of AI Report 2020 is the third in a series and provides a snapshot of trends and priorities from the private sector. This industry report features technology breakthroughs and their capabilities, supply, demand, and concentration of talent working in the field, large platforms, financing, and areas of application for AI-driven innovation today and tomorrow, special sections on the politics of AI, and predictions for AI.

Download the report

The Secret History of Revenge and Women in Data Science

Excerpts from Russ Altman's 2019 interview with Margot Gerritsen, the senior associate dean for educational affairs at Stanford Univeristy's School of Earth, Energy and Environmental Sciences, reveal how an exasperated group of marginalized data scholars colluded to create one of the most popular events in academia: the WiDS Conference. In the spring of 2015, Gerritson met with friends and colleagues to plan a revenge conference that would "get outstanding women talking about outstanding work." The November event a huge success that sold out weeks in advance, with over 6,000 attendees that first year. "It was a big deal for everybody there and the atmosphere was intoxicating, I have to say. And for many of the women there, this was the only time thus far in their professional lives or at university where they were surrounded by many other women, and it was an incredibly positive conference. And then we thought: how are we gonna feed this frenzy?" To answer that question, she organized the Global Women in Data Science to begin holding annual events. A half a decade later, WiDS has become a global movement with hundreds of ambassador organizers in dozens of countries and over 100,000 attendees every year.

Still, women are severely underrepresented in data science across the globe. According to Dr. Gerritson, "We are actually not doing so well in the States compared to some other countries, and when most people think about where it is really good, they usually come up with Scandinavia or Holland, where I'm from originally. But actually there it's also not great, for other reasons. But in most places it's that industry, government labs, and computational groups have been dominated by men for a very long time. There is bias against women, so there are just not many women around. The (talent) pool is low because the problem isn't really addressed at the core--starting from very early education. And so it's very, very hard for women to be taken seriously, and it's very hard for women to be promoted. We have all these efforts to hire more women, but it's much more than hiring. You also need to promote them, and they're not promoted in equal numbers." Read the original October 2019 transcript published in full by the Stanford Engineering Staff.

How did your career in data science begin? Tell us your story!

Contact us



Key Dates

Connect Your Research to the International Community through CODATA Tuesday, October 20, 2020 at 10am Tucson |1pm DC | 7pm Paris

Join us to learn how to connect your research to CODATA's global network of data scientists, science advisors, researchers, practitioners, facilities, and training opportunities.

Contact ceds@arizona.edu to receive a calendar invite

Big Data Visualization PERSPECTIVES FROM THE DATA SCIENCE PRACTITIONER COMMUNITY

Industry experts share their views on **The Future Of Data Visualization**, published by The Innovation Enterprise Ltd, September 27, 2020.

The demand for visualization from a business perspective is strongly felt when new technologies in related fields gain popularity. The advent of medical imaging technologies (CT, MRI etc.) in the early 90s gave birth to several R&D companies offering medical and scientific visualization solutions. Such possibilities are abundant in today's world. For example, in the next few years, Internet of Things will make it possible to connect to and collect data from any device anytime, giving rise to an unforeseen deluge of data. A solution that offers the ability to visualize such data quickly and effectively will attract many takers. On the other hand, AI and deep learning will proliferate to new domains. Needless to say, onboarding users will embrace tools capable of visualizing these complex deep learning engines and the data churned by them.

- Abon Chaudhuri, Sr. Applied Researcher, at Walmart Labs

There are three big changes, we will see in the next five years: (1) disruptive tools with serious differentiations, (2) application in new industry verticals, and (3) cross-pollination of people from different backgrounds entering this field

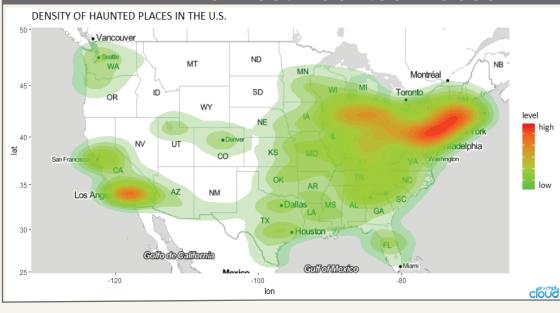
In the next five years, I also think data visualization will start putting its strong foothold in different industry verticals like HR, Manufacturing, Healthcare, Education etc. We already have some specialized products for Marketing Analytics, Product Analytics, HR Analytics, etc. We will see more of these.

- Akash Mukherjee, Data Products, People Growth at Facebook

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Spooky Halloween! The Most Haunted Places in America



PromptCloud's data scientist, Janet Williams,transformed a few simple data points from The Shadowlands website to create this map of terror!

See how she did it

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