Why Schools and Society Should Make AI Literacy a Top Priority

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Misinformation

- Disinformation
- Rumor
- Urban Legend
- Spam
- Troll
THE
FACEBOOK
PAPERS
Datafication and Systemic Racism

- Algorithmic Discrimination (Noble 2018)
- Racial bias in online advertisements (Sweeney 2013)
- Predictive Policing (Brayne 2021)
- Criminal Justice System and Big Data (Angwin et al. 2016)
- Race and Facial Recognition (Buolamwini & Gebru 2018)
What we know about children and AI

• Think of AI as trustworthy (Druga et al. 2017)
• Think of AI as creepy (Yip et al. 2019).
• Anthropomorphize AI devices (Druga et al. 2017)
• Home ecology is a significant factor in how these systems are adopted and used (Ito et al. 2012)
AI and Youth of Color

• AI devices are not built with diverse population of users in mind
• Failure to respond adequately to culturally specific inquiries
• Bias data sets can lead to disparate impacts
Hundreds of app developers make mobile apps for children. Some of them sell ads in their apps to make money.

Ad-technology companies help put ads into apps. They make packages of code that help app makers run ads.

Children can download these games, which are often free, by clicking a few buttons.

When a child starts using the app, personal data can be sent to ad-technology companies.

Some ad-technology companies don't collect this data, but many do because it helps personalize ads.
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This information can include IP address, location, demographic characteristics and ID numbers that let ad companies track people.

Based on the information that’s sent to ad-technology companies about the user, they sell an ad.

In the process, the ad-technology companies use the data to build user profiles associated with ID numbers.
What’s at stake?
AI-Based Systems

- Deep Profiling
- Targeted Content
- Targeted Ads
- Socialization
- Manipulation
- Violation
Google and YouTube Will Pay Record $170 Million for Alleged Violations of Children’s Privacy Law

September 4, 2019

**FTC, New York Attorney General allege YouTube channels collected kids’ personal information without parental consent**

**FOR RELEASE**

TAGS: Children's Online Privacy Protection Act (COPPA) | Technology | Bureau of Consumer Protection | Consumer Protection | Advertising and Marketing | Children | Privacy and Security | Children's Privacy

**NOTE:** The FTC hosted an IN-PERSON press conference at FTC Headquarters on September 4. The news conference was also webcast; view archival video here.

Participants included FTC Chairman Joe Simons and Director of the FTC’s Bureau of Consumer Protection Andrew Smith.

Google LLC and its subsidiary YouTube, LLC will pay a record $170 million to settle allegations by the Federal Trade Commission and the New York Attorney General that the YouTube video sharing service illegally collected personal

**Related Cases**

Google LLC and YouTube, LLC

**Related Actions**

Prepared Remarks of Chairman Joe Simons at FTC YouTube Settlement Press Conference
Statement of Commissioner Christine Wilson Regarding YouTube
Statement of Commissioner Noah Phillips Regarding YouTube
Children's use of smart devices begins at especially young ages, rendering them exposed to the influences of artificial intelligence.

AI literacy must begin early and evolve over the course of a young person's life.
The Digital Edge: How Black and Latino Youth Navigate Digital Inequality

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Andres Lombana-Bermudez, Alexander Cho, Jacqueline Vickery, Vivian Shaw, and Lauren Weinzierl
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TECHNOLOGY RICH, CURRICULUM POOR

Arms race.

Associate presence of tech as an indicator of 21st century learning.

Is the curriculum preparing students for a world dominated by AI?
DIGITAL DIVIDE

Skills

LITERACY

Disposition

Data
What is **AI Literacy**...today?

- **Technical** Literacy
- **Critical** Literacy
- **Behavioral** Literacy
TECHNICAL LITERACY

How are AI systems built?

How do they function?
What are AI systems designed to do?

What are the social, ethical, and equity issues?

Diverse expertise.
BEHAVIORAL LITERACY

How do AI systems shape human behavior?

Human agency and digital wellness.
Rights of Data Subjects
under the GDPR

- **Right to be Informed**
  - Provide the information listed in Art. 13. If the PD was provided by the DS or Art. 14, if not.

- **Right of Access**
  - Confirm if it applies, provide access to the DS own PD and the information listed in Art. 15.

- **Right to Rectification**
  - Allow the rectification of inaccurate PD and the provision of supplementary data.

- **Right to Erasure - “Right to be Forgotten”**
  - Erase the PD, when a DS request so and there are no legitimate grounds for retaining it.

- **Right to Restriction of Processing**
  - Impede the processing of PD under the situations stated in Art. 18, e.g. it is unlawful.

- **Notification Obligation**
  - Notify any rectification or erasure or restriction of processing to each Recipient. Exempt Art. 19

- **Right to Data Portability**
  - If Art 20(1) applies, give back the PD as required and allow the transfer to another DC.

- **Right to Object**
  - Provide the option to object the processing if the conditions in Art. 21 apply. Also, quickly respond and demonstrate legitimate grounds.

- **Automated decision-making**
  - Do not base a decision solely on automated means, including profiling, which produces legal or similar effects. Exempt Art 22(2)(4)

- **Others**
  - E.g. communication about a PD breach, withdraw consent and compensation.

**Data Subject (DS)**
All natural persons whose personal data (PD) is processed by a controller or processor in line with art. 3 GDPR.
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