

AI in K-12 Tech Education

Maya Israel, Ph.D.

University of Florida

misrael@coe.ufl.edu

Director: CS Everyone Center



1. Teacher Preparation: Expanding CS and AI Teacher Professional Learning



2. Engaging All Learners: Increasing CS and AI opportunities for K-12 learners with disabilities



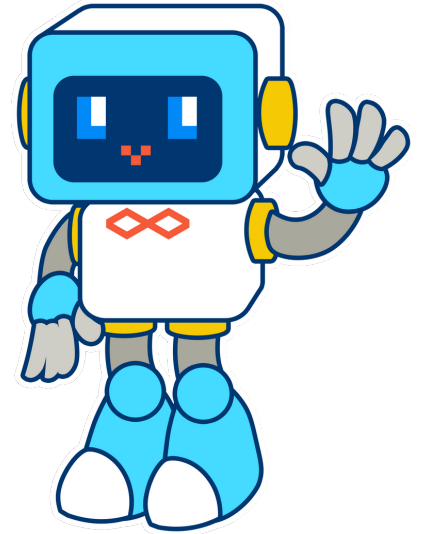
3. Research & Innovation: Advancing research that promotes opportunities for all learners in K-12 CS/AI education.



4. Capacity Building: Bringing academic and professional organizations together to build CS and AI education capacity.

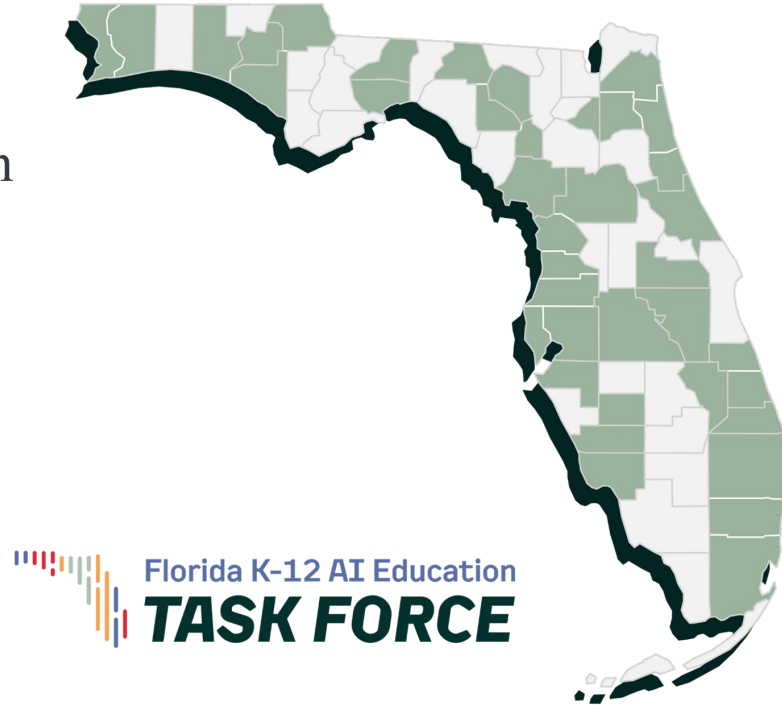


cseveryone



Lead: Florida K-12 AI Education Task Force

- 39 school districts including the 10 largest and the 3 rural education consortia as well as
- Charter networks
- Institutions of higher education
- Industry partners
- Education associations



Additional slides if you want some context about AI in teaching and learning

Opportunities

- Personalized learning pathways
- Empowers student autonomy
- Builds skills essential for modern workforce including computational thinking and data literacy

Risks

- Academic integrity threats
- Distinguishing credible content from AI-generated misinformation
- Dependency/over-reliance
- Workforce displacement anxiety

We must help prepare students to operate inside this ambiguity.

Avoiding AI is NOT a safety strategy.

Critical engagement is essential!

~~Avoidance~~

What should students know?

AI Literacy

How AI works, limits, safety, and appropriate uses.



Human-Centered Decision Making

Use AI to support, not replace, critical thinking.



Data Interpretation

Critically read and interpret AI-generated outputs; visualize and communicate findings.



Career Connections

Industry awareness and understanding of how AI is reshaping roles across careers

