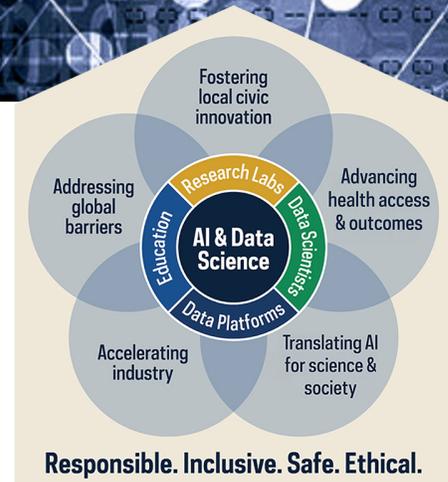




## Education for Social Good

The **Lucy Family Institute for Data & Society's** educational initiatives prepare students and educators to pivot into careers in data-driven and AI fields.

The programs offer experiential training in ethical, socially responsible and engaged use of data and AI technology.



### Our strategy

- 1. Preparing future leaders:** Through experiential training opportunities, the Institute trains a pipeline of individuals who are prepared to tackle the challenges of tomorrow, drive progress, and make a positive impact on society, using data and AI tools and skills.
- 2. Addressing global challenges:** The practical, educational programs offered at the Institute allow students to work on real-world issues like poverty, inequality, and sustainability, inspiring action for a better future.
- 3. Strengthening empathy & social awareness:** The Institute's educational initiatives foster empathy and social awareness by promoting diverse perspectives, creating inclusive environments, and reducing discrimination.
- 4. Supporting meaningful development by integrating education with social impact:** Recognizing the rapidly evolving fields of data science and AI, the Institute regularly updates its curriculum to include emerging topics in machine learning, AI, and data science, while fostering interdisciplinary collaborations with industry, NGO, government, and community partners to provide students with practical experience and career development opportunities.

### By the numbers

**3**  
INTERNSHIP  
PROGRAMS

**94**  
ITREDS  
PARTICIPANTS

SUPPORTING  
**>40**  
COMMUNITY  
PROJECTS

**23**  
GRADUATE  
SCHOLARS

**71%**  
FEMALE  
ITREDS  
PARTICIPANTS

**20%**  
MINORITY  
ITREDS  
PARTICIPANTS



## Educational initiatives

### ● Data science & AI training for educators

The **Early Bridges to Data Science** program is a week-long summer program that offers interactive workshops in data analysis, programming, data visualization, and ethics and social responsibility to local middle school educators to foster data science exploration into the student curriculum.

### ● Project-based immersion for K-12 students

The **Research, Analytics, Data Innovation, and New Technologies (RADIANT)** program offers a four-week data science immersion for local high school students, especially from under-resourced communities, featuring hands-on, project-based learning. It also provides undergraduate students with mentorship opportunities to apply analytics, data visualization, and lead workshops on coding and data ethics.

### ● Undergraduate data science training & mentorship

A key initiative of the Institute, the **Interdisciplinary Teaching and Research in Ethical Data Science (iTREDS) Scholars Program** welcomes undergraduate students at the University of Notre Dame and Saint Mary's College from diverse fields to explore data science through the lens of social responsibility, ethics, and community engagement.

The two-year program includes a summer teaching internship, capstone project, and faculty mentorship, guiding students in evaluating the societal impact of their work.

### Research spotlight

**The #GOALS Program** | The #GOALS (Go Out and Love Science) program, led by a partnership between the Institute and the Ascension Foundation for Health Equity, helps students envision their career paths and explore opportunities in STEM and education.

The Roblox platform offers a digital tool to track the success of #GOALS events through a gamified environment, where students explore STEM-related activities and complete embedded surveys. This platform, chosen for its popularity with children, includes medical-themed games like the "Pharmacy Challenge" to engage students in healthcare topics. Surveys track students' interest in healthcare careers and assess how the program impacts their outlook.

## Research powered by:

The Institute's research is powered by the collaborative nexus of specialized labs:

- The Applied Analytics and Emerging Technology Lab (AETL)
- The Artificial Intelligence Trust and Reliability (AITAR) Lab
- The Center for Social Science Research (CSSR)
- The Data, Inference, Analytics, and Learning (DIAL) Lab
- The Civic-Geospatial Analysis and Learning Lab (C-GALL)
- The Health Data and Analytics Lab (HDAL)
- The Human-Centered Responsible Artificial Intelligence (HRAI) Lab

