Data Science for the Masses: start small, think big
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• **Data Science (Informatics) in Education**
  - Work with data in all learning settings.
  - Use data for inquiry-based classroom learning experiences.
  - Learning is enhanced when students work with real data and information (especially online data) that are related to the topic (any topic) being studied.
    - [http://serc.carleton.edu/usingdata/](http://serc.carleton.edu/usingdata/) ("Using Data in the Classroom")

• **An Education in Data Science (Informatics)**
  - Data Scientists are specifically trained …
    - … to access large distributed data repositories
    - … to conduct meaningful inquiries into the data
    - … to mine, visualize, and analyze the data
    - … to make objective data-driven inferences, discoveries, and decisions

• **Teach by Example: follow an evidence-based “forensics” approach**
  - Science is data-driven (evidence-based).
  - The Scientific Method does not begin with “hypothesis formulation” …
    - … neither should any reasoning process start with pre-conceived conclusions.
  - Big Data provide an excellent framework and environment for dealing with this.
  - By including Data Science in all of our education programs, we train the next-generation workforce in the art of informed, objective, data-driven, evidence-based decision-making.
  - Isn’t this what we expect from all of our citizens?