Project Deliverables

Lecture 13

Outline

- Project Output
- Examples of Projects

Project Deliverables

- Report
- Code Artifact
- "Visual Presentation"
  - Project webpage or blog
  - Usable Product (UX)
- Presentation
  - Detailed slide presentation
  - Elevator Pitch

Capstone Presentation Event

- Friday, March 12, 9-11AM (Week 10)
  - Attendance is *mandatory*
- Virtual poster session with attendees from:
  - HDSI Industry Partners
  - Faculty across campus
  - Data Science Major
- Your project output will be available on Capstone website
  - By *beginning* of week 10!
- Most attendees will *not* be experts in your domain
  - The blog will be how most will learn about your work
  - Prospective employers will be interested in your code *quality*

Project Report

- Describes the details of your project and its implementation
- Justifies the project
  - why is it interesting?
  - why is the project worth the investment?
- Details the correctness of the work
- Report may take several forms:
  - Paper for a scientific investigation
  - Proof or evidence of correctness/usefulness for a library
  - An ROI analysis for a product

Project Code-Artifact

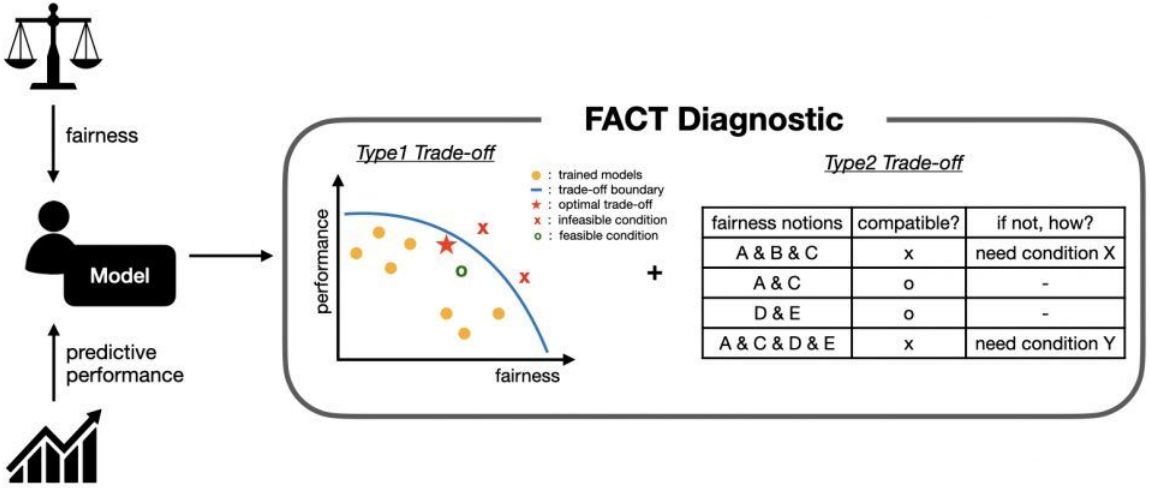
- Reproduces results of the report
- Builds project output for others to use/verify
  - Fight the reproducibility crisis in science and engineering!
- Provides clear code for others to understand and extend.
  - Advance progress more quickly
- May include supporting code (as submodule)
  - Library/Package developed for project
  - Service that deploys a project
  - Instrumentation code for data collection

Project's "Visual Presentation"

- By default a "blog" on a static webpage (easy and effective!)
  - May choose to have a page w/back-end
- An accessible introduction to your project.
- Way to sell the project to a target audience
  - You may choose who the target audience is!
  - This deliverable will be how most will learn about your project.

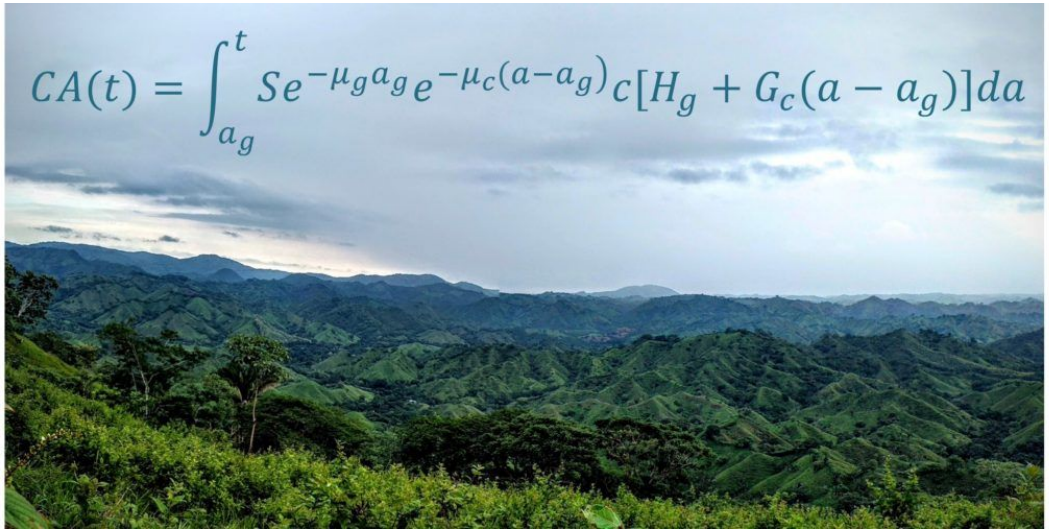
Example: FACT Diagnostic

- Blog explains paper's main points (target audience?)
- Paper contains correctness and results
- Code reproduces the project and provides usable tool



Example: Scaling up Forest Restoration

- Blog intended for general audience (w/interactive shiny app)
- Paper contains scientific investigation
- Code reproduces project

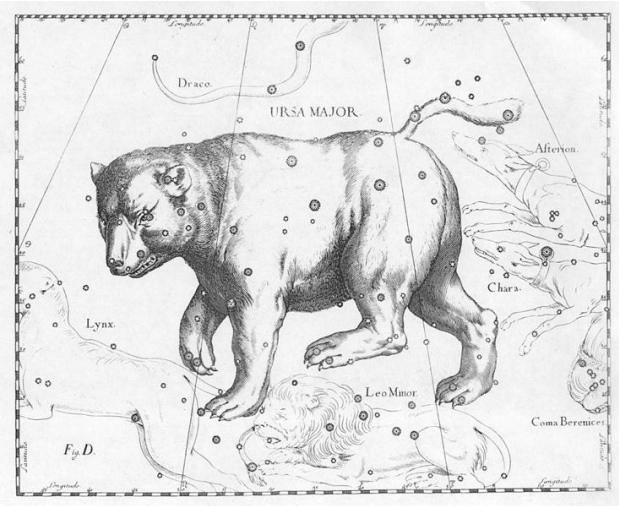


Example: Recount2

- Website makes datasets (output of project) available
- Code for the R package
- Paper justifies/demonstrates the processing tool

Example: Kallisto

- Website introduces and contextualizes the software.
- Paper describes usefulness and correctness of method.
- Code contains source code for the tool



Example: Voytek Lab

Lab contains multiple projects

- Page contains introduction to problems approached by lab
- Code lists source for both tools/libraries *and* for reproducing papers
- Papers contain the details of the results

Example: LightGBM

- Page briefly introduces project and contributors
- Paper describes correctness of algorithm
- Code contains library for algorithm usage