DLI Accelerated Data Science Teaching Kit

Lecture 22.2 - Project Idea Checklist: Heilmeier Questions

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How to Develop Great Project Ideas?

Recommendations

- Work on something that you are excited about
  (e.g., NetProbe for eBay fraud detection)
  - Is it interesting? e.g., computationally? visualization-wise?
  - Is it impactful? (e.g., save lives? fight crime? shorten commute? save resources?)
- Work on something interestingly challenging, so you will learn more
- Browse the list of datasets on course homepage

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George Heilmeier

Former Director of DARPA

Retreived: https://en.wikipedia.org/wiki/George_H._Heilmeier

Heilmeier Questions

Preflight checklist for successful projects

1. What are you trying to do? Articulate your objectives using absolutely no jargon.
2. How is it done today; what are the limits of current practice?
3. What's new in your approach; why it will be successful?
4. Who cares?
5. If you're successful, what difference and impact will it make? How do you measure them (e.g., via user studies, groundtruth data)?
6. What are the risks and payoffs?
7. How much will it cost?
8. How long will it take?
9. What are the midterm and final "exams" to check for success?

Retreived: http://en.Wikipedia.org/wiki/George H. Heilmer

Retreived: http://smlv.cc.gatech.edu/2010/10/17/heilmeiers-questions

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Thank You