# Legal, Ethical and Policy Issues in Data Science

COSC2669

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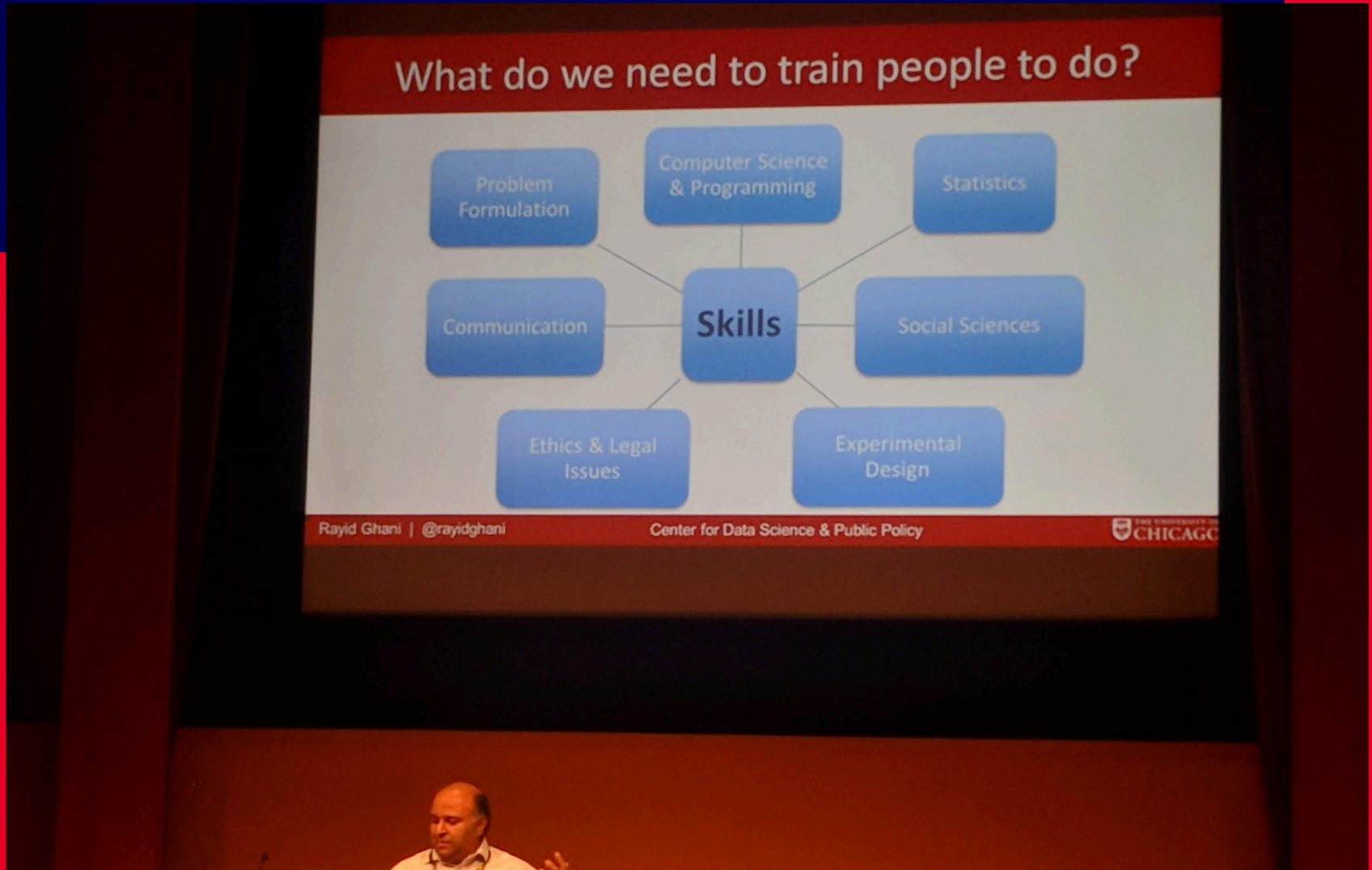
Keynote at SIGIR 2018: Rayid Ghani, Director of the Center for Data Science and Public Policy, University of Chicago


What do we need to train people to do?
Problem Formulation
Computer Science & Programming
Statistics
Communication
Skills
Social Sciences
Ethics & Legal Issues
Experimental Design
Rayid Ghani | @rayidghani
Center for Data Science & Public Policy
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# The 6 Dimensions of the Data Scientist

**1. Data Engineering:** data preparation, model operationalisation & software engineering (week 6)

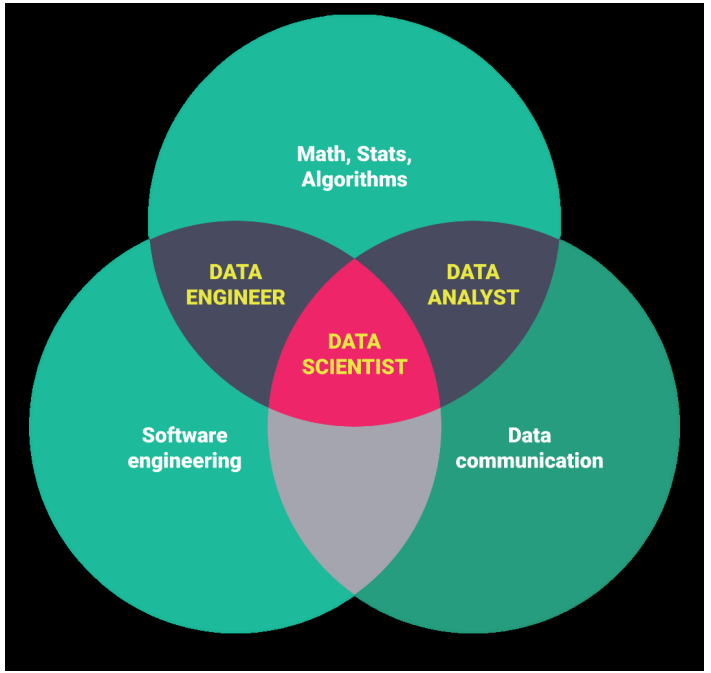
- Data processing pipelines & feature stores
- Operationalise & model stores/ prediction-as-a-service
- Software engineering: OO programming, git, automated testing, automate decision points
- Data warehousing & ETL

**2. Data Science:** prediction, insights & research

- Prediction vs Insights (week 3)
- Research: making it better & easier for us all
- Cutting edge applications: do our work, make our work/life easier, make things better for us

**3. Full Stack Developer:** your channels to your customers/users

- Build your channels
- Measure your channels
- Improve your channels

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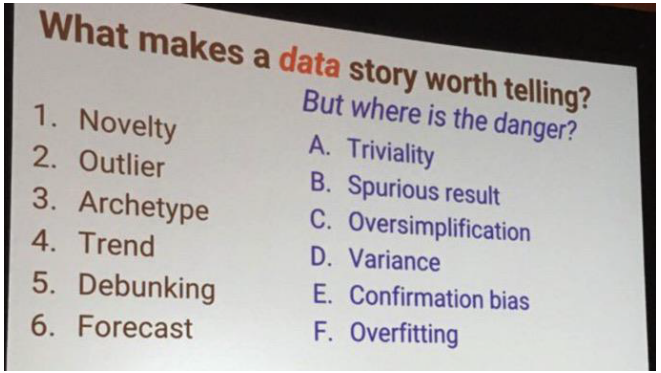
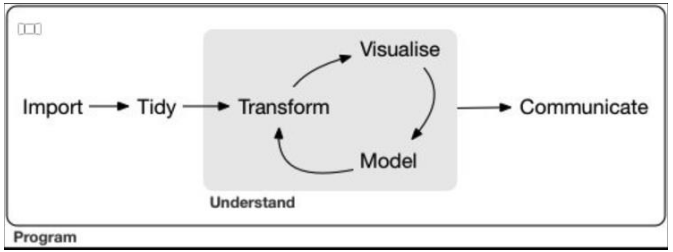
# The 6 Dimensions of the Data Scientist

**4. Business Skills (week 4)**
- Growth areas: new opportunities
- Focus areas: biggest margin/profit
- Issues areas: improvements/solutions

**5. Consulting Skills:** people skills, relationship building and stakeholder management (week 8 and 9)
- Never eat alone: make time to reach out and get to know people
- Be a doctor: see beyond people's asks to identify their actual needs
- Being valuable will open you many doors (even more if you're nice)
- Build powerful & compelling stories based on your findings

**6. Domain Knowledge**
- You need it
- Acquiring one means you can acquire many
- Find the toughest business analyst and build things to their standard

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# Task 1

**Part 1**

This part requires you to **find two job advertisements** that cover the type data science role you see yourself doing. For each job advertisement:

- identify what are your current strengths and
- what are the gaps in your current knowledge and skills.

**Part 2**

The second part of this task requires you to **create a LinkedIn profile** for yourself (if you do not already have one) and **then update your profile to include the skills you identified in Part 1** (of your current strengths) that you already have for specific data science jobs. If you have other skills and experience add these to your profile as well.

**Submission**

You need to create a single **PDF file containing**:

(i) copies of the job descriptions,
(ii) your assessment strengths and gaps,
(iii) the link (URL) to your LinkedIn profile.

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# Datathlon

http://www.datasciencemelbourne.com/datathon/

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