

AGENDA Data Science - A working definition Skills, competencies and more The data science workflow Tools and methodologies Challenges and opportunities



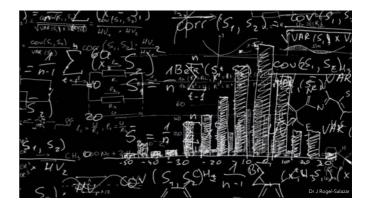
DATA SCIENCE
WHO ARE YOU?
WHAT BRINGS YOU TO ODSC?



DATA SCIENCE

WHAT COMES TO MIND WHEN THINKING OF "DATA SCIENCE"? CAN YOU DEFINE IT?

Or J Rogel-Salaza



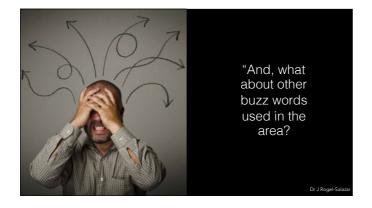
DATASCIENCE

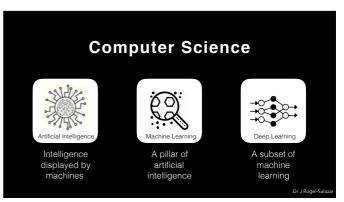
A BRIEF HISTORY

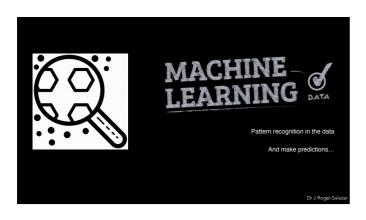
Dr. I Rogel-Salazar

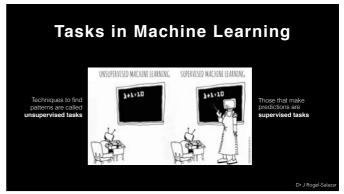














A generic term

Does not fir in memory, o

Dr J Rogel-Sala

DATA... SCIENTISTS...

- There are many definitions...
- "Data science is the combination of analytics and the development of new algorithms... You may have to invent something, but it's okay if you can answer a question just by counting. The key is making the effort to ask the questions."



Hillary Mason

Dr J Rogel-Salaza

DATA SCIENCE

WHAT WOULD YOU WANT TO KNOW OR DO IF YOU COULD GET ACCESS TO ALL THE TRANSACTIONAL DATA...?

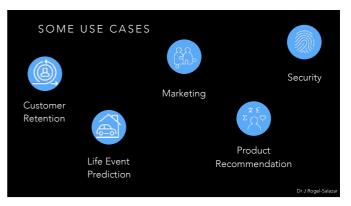
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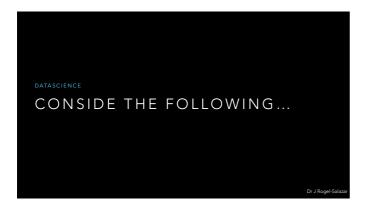
DATA SCIENC

WHERE? WHAT? WHO?

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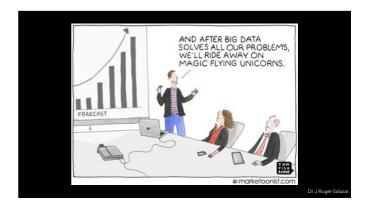


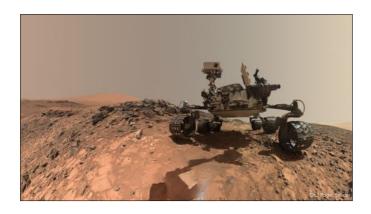


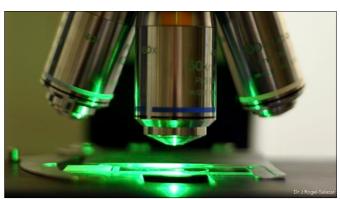
DATA SCIENCE

WHAT IS THE MOST IMPORTANT SKILL: PROGRAMMING, BUSINESS KNOWLEDGE, MATHS & STATS, COMMUNICATION, OTHER?

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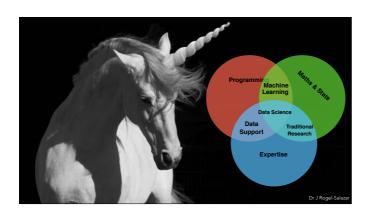




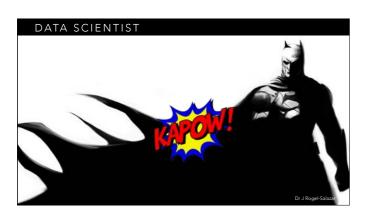














JACKALOPE DATA SCIENTISTS

- Or... you can be more realistic and become a Jackalope data scientist
- This can help you build an effective team

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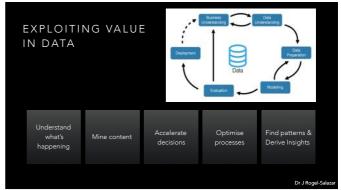
JACKALOPE?

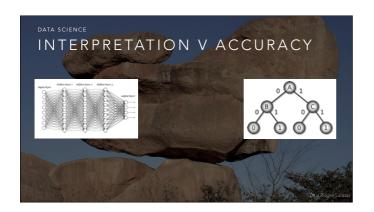
- A mythical animal of North American folklore:
 - A Jackrabbit with antelope horns
- Douglas Herrick (1930s) popularised the jackalope by making one
- Mythical but with a hint of reality...
 - the cottontail rabbit papilloma virus (CRPV) infects certain leporids, causing keratinous carcinomas resembling horns

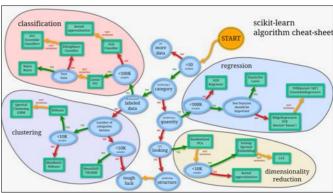
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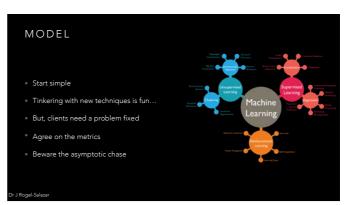


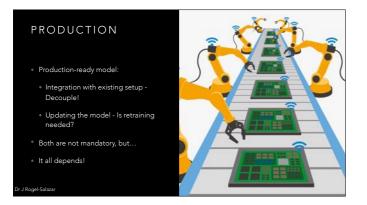






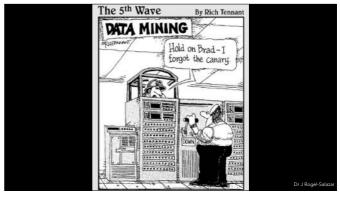


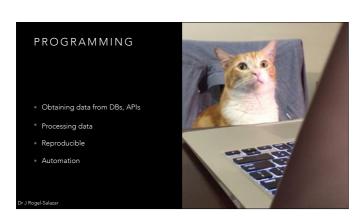






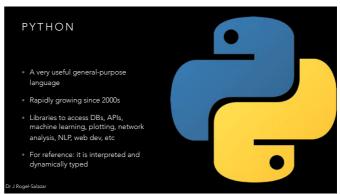


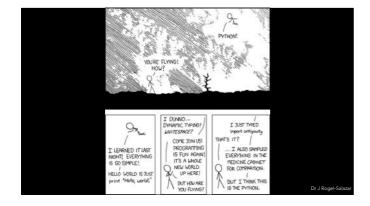




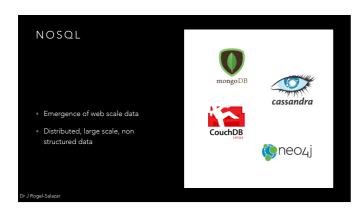


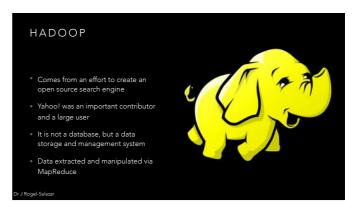




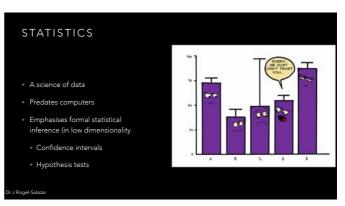


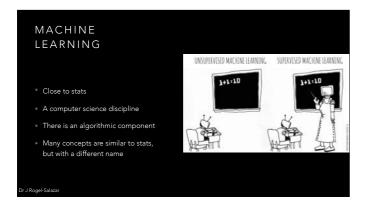


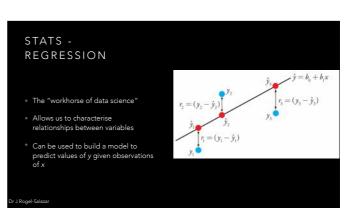








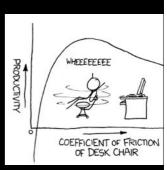




CHALLENGES AND OPPORTUNITIES

YOUR JOB

- The organisation you work for probably generates more data than you imagine
- Is the value form each data source exhausted?
- Is data from multiple sources? Combined?
- Are users aware of possibilities offered by SNA, NLP, others?



Dr. I Rogel-Salaz









