BIM A+

European Master in
Building Information Modelling

Data science

Topic 2: Fundamentals of programming

BIM A+3: Parametric Modelling in BIM

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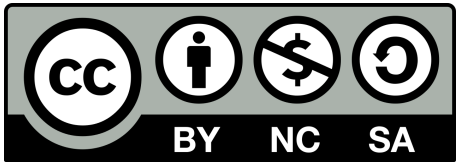

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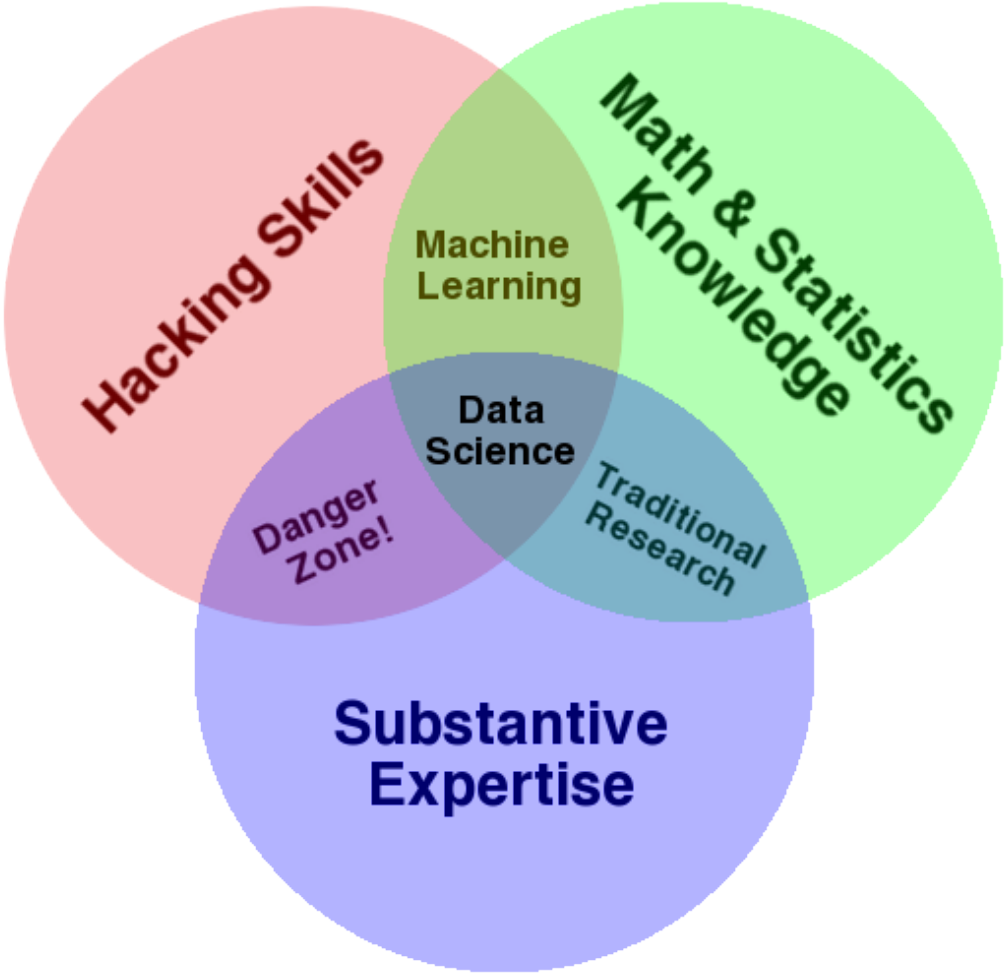
What is data science

Hacking (Programming)

\+ Maths/Statistics

\+ Domain Knowledge

= **Data Science**



The Data Science Venn Diagram, http://drewconway.com/zia/2013/3/26/the-data-science-venn-diagram

Who is data scientist

A data scientist is simply a scientist living in 2020 and beyond

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write code

understand statistics

derive insights from

Who is data scientist

A data scientist is simply a scientist living in 2020 and beyond

write code

= in Python, R, MATLAB, SQL, …
= for data storage, querying, summarisation, validation, …
= how efficiently and in time
= where on databases, on cloud, servers, …

and understand enough statistics

to derive insights from data

so you can make decisions