

Fabian Springer 8-2-2019



→ Why Study Physics!

- \rightarrow Searching for Jobs
 - → Business Intelligence
 - \rightarrow Big Data
 - → Data Science
 - → Data Warehousing
 - \rightarrow Physics in my life



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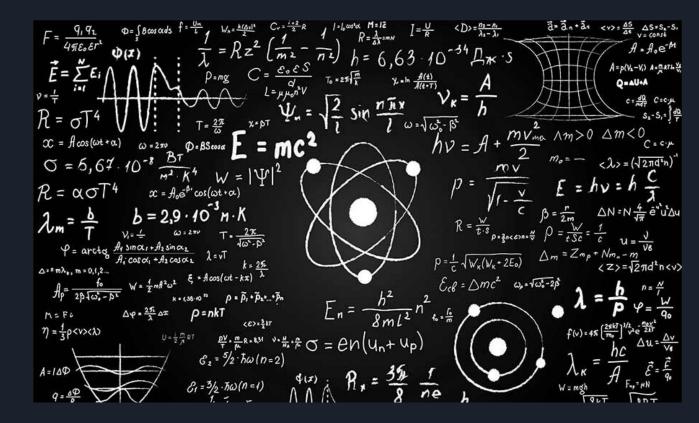
Why studying Physics?

Challenging

Interesting

The urge to know how thing work and how we can make predictions

Mathematics





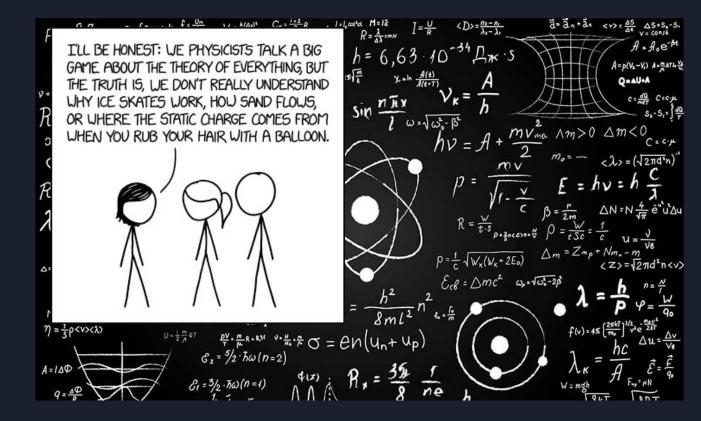
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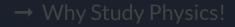
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Searching for Jobs

Engineering

Risk Management

Technical Project Management

Data Analytics







Searching for Jobs

Start looking around as soon as possible

For Phd but also for jobs in industry

What do you like?







Traineeship in Business Intelligence / Big Data

What is a database

Programming (Python)

SQL

ETL

What does a business expect to get from the data

What can you actually get out of it?





Working at YoungCapital (Uitzendbureau)

Payrolling is very complicated

Communicating your analysis to people with absolutely no technical background

You deal with a lot of different rules due to different customers

Freedom and a relaxed working environment

Lot of young people

Take your own initiatives





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What is Business Intelligence?





What is Business Intelligence?

Providing information to the organisation

Reports for end users

Analysis...

Margin / Revenue / Profit







What is Business Intelligence?

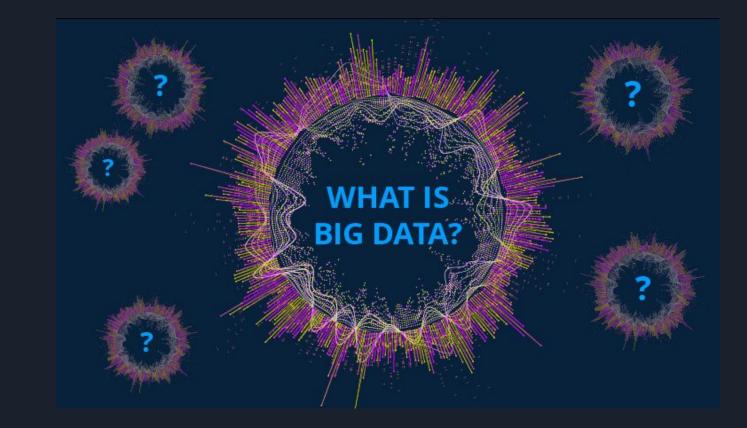




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Large amounts (TB's)

Unstructured

Challenging to process

4 V's : Volume, Variety, Velocity, Veracity





Twitter

Trump sent 2.500 tweets in his first year

Texts (Natural Language Processing)

Images

Videos











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Data Science

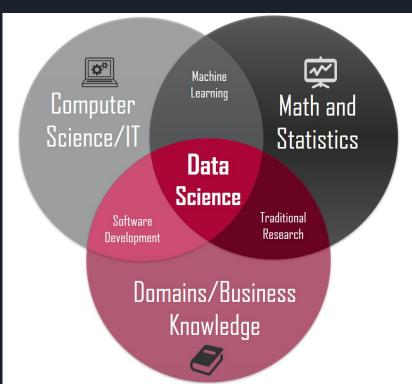
Best link to physics

Battling unstructured data to gain insights

Find hidden treasure (data)

Making your analysis understandable for others







Data Science

Best link to physics

Battling unstructured data to gain insights

Find hidden treasure (data)

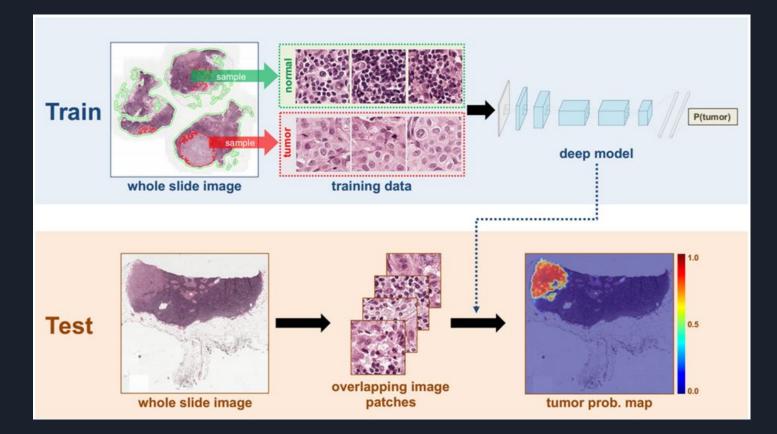
Making your analysis understandable for others



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Data Science / Big Data



Top 10 Use Cases for Data Science & Machine Learning





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Data Warehousing

Adding structure

Combining different sources

Combining different data types





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Is Physics still visible in my job / life ??

Programming

Statistics

Physics mindset helps me interpret problems

CERN is also struggling with a large data issue

Still a huge interest / hobby







What's in the future?





