

# My experience as a Data Scientist

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# Previous Experience

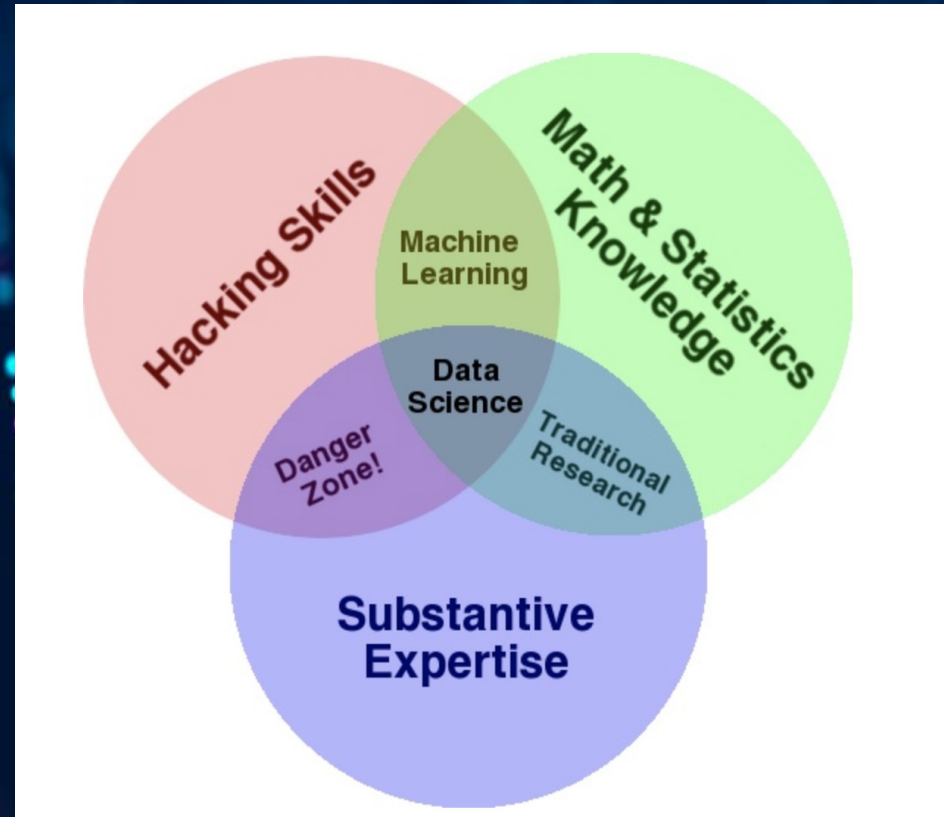
- Academia:
  - Astronomy Degree (PUC)
  - PhD. in Astrophysics (PUC)
  - ... years of post-docs...
  - Then, I realized that:
    - There are not enough permanent positions for all scientists (astronomers in this case)!
    - I enjoy solving problems with mathematical approach.
    - There are a lot of problems out there to be solved!
    - ... and you can solve them ;-)

# A bit of context

- We are living the **Fourth Industrial Revolution!**
  - Internet of Things.
  - Smart sensors.
  - Customer interaction and profiling.
  - Big data and advanced analytics.
  - Cloud computing.
  - ...
- [https://en.wikipedia.org/wiki/Fourth\\_Industrial\\_Revolution](https://en.wikipedia.org/wiki/Fourth_Industrial_Revolution)

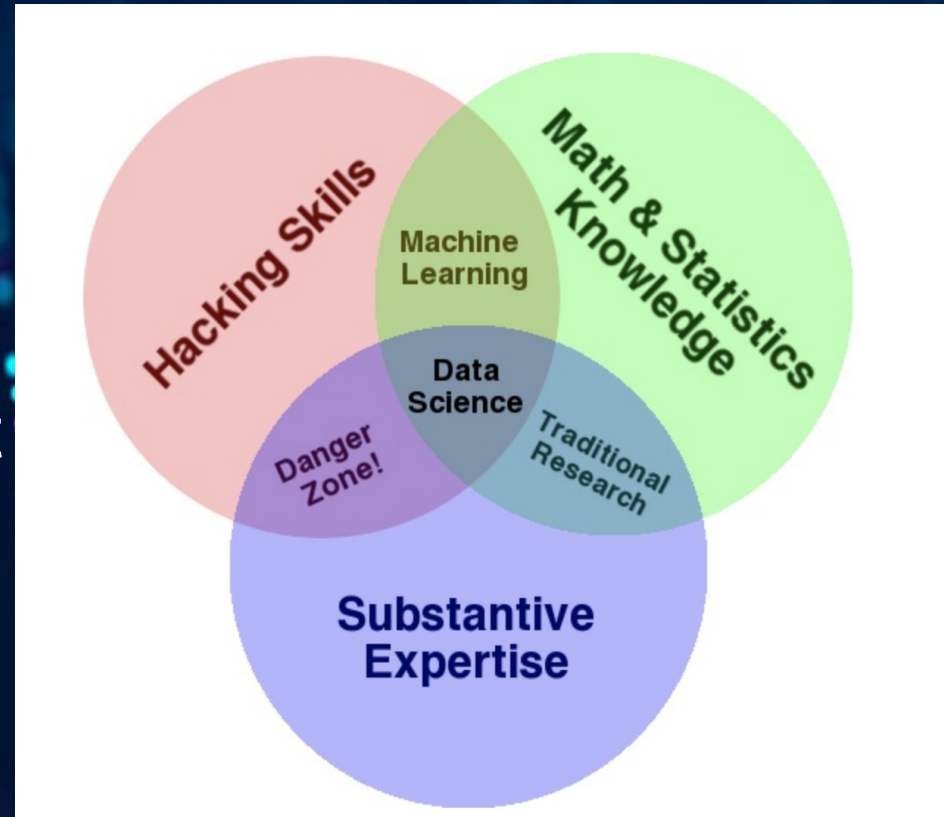
# What do we have now?

- Looking at the Venn Diagram:
  - We know maths and statistics.
  - We do have computing skills.
  - We do have substantive expertise... in Astronomy!



# What do we need?

- Because we know how to learn!
  - We DO need to get new computing skills.
  - Our experience in different projects will build-up our domain expertise: retail, agro, finance...



# Some names to take home

- **Python!**

- Git.

- Data Science:

- Pandas.

- Matplotlib.

- Scikit-Learn.

- Machine Learning:

- Scikit-Learn.

- TensorFlow.

- PySpark.

- Data Engineering:

- SQL.

- Bash.

- Airflow.

- Spark.

- Cloud computing:

- Azure.

- GCP.

- AWS.

# A real project with ESO

- **Python!**

- **Git.**

- Data Science:

- **Pandas.**

- **Matplotlib.**

- Scikit-Learn.

- Machine Learning:

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- **TensorFlow.**

- PySpark.

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- SQL.

- **Bash.**

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- Spark.

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- **Azure.**

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- AWS.

# Recommended sites

- Blogs/codes:
  - [machinelearningmastery.com](https://machinelearningmastery.com)
  - [thinkinfi.com](https://thinkinfi.com)
  - [medium.com](https://medium.com)
- Courses:
  - [datacamp.com](https://datacamp.com)
  - [realpython.com](https://realpython.com)





It is a good time  
to become a  
data scientist!