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LEARNING PATH TO DATA SCIENCE



Presented by: KANN Bonpagna

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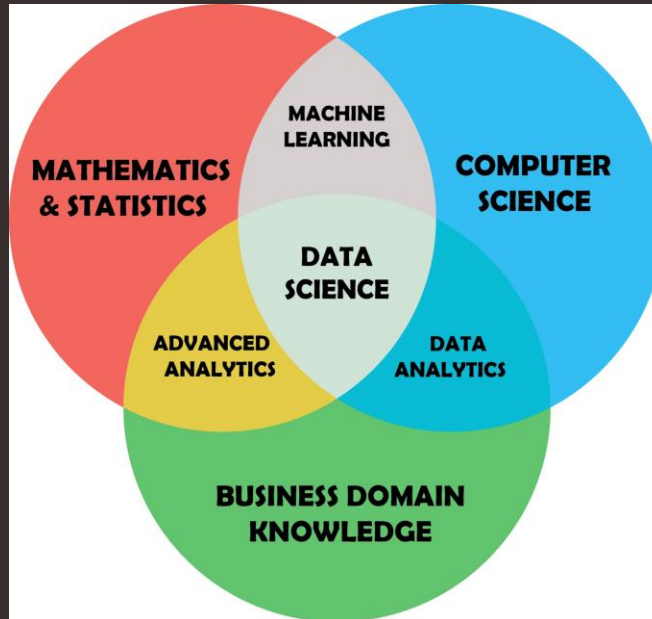
QUESTIONS & ANSWERS

Questions and
Answers

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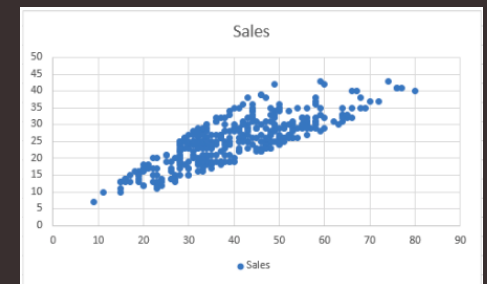
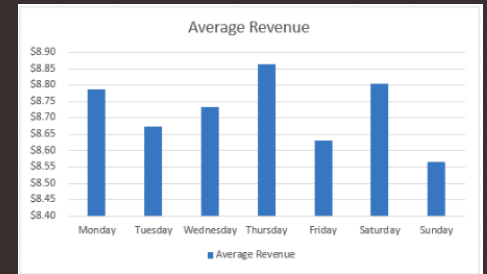
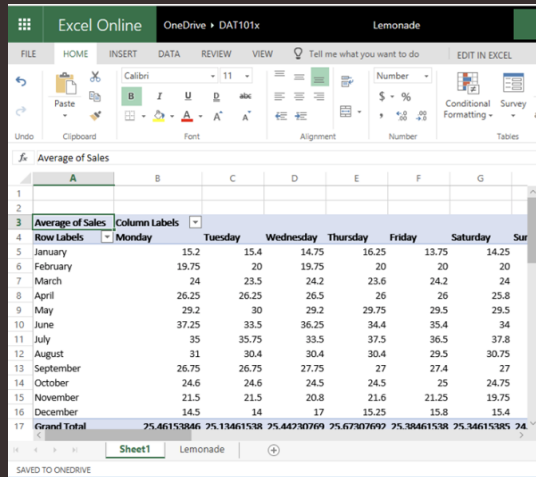


Source: Analytics Training Institute

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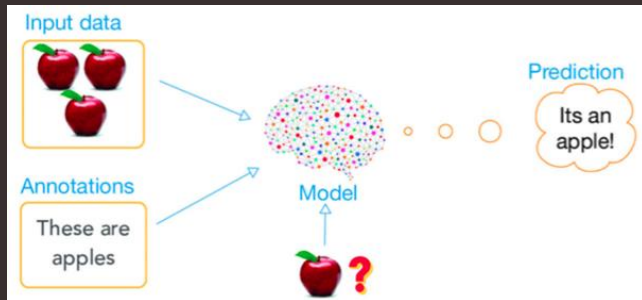
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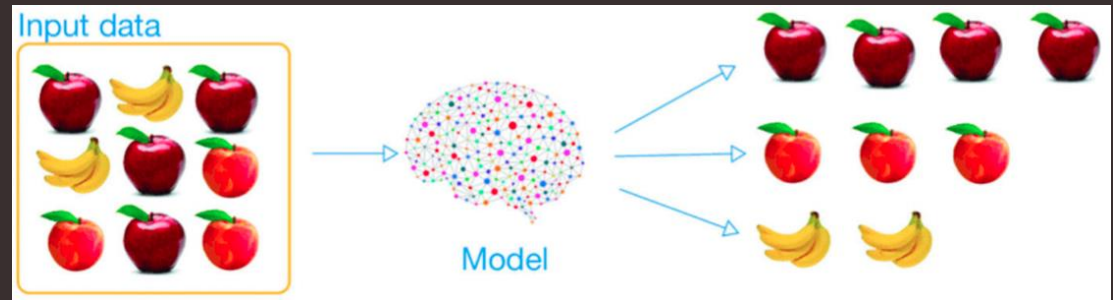


ABOUT DATA SCIENCE

Supervised Learning



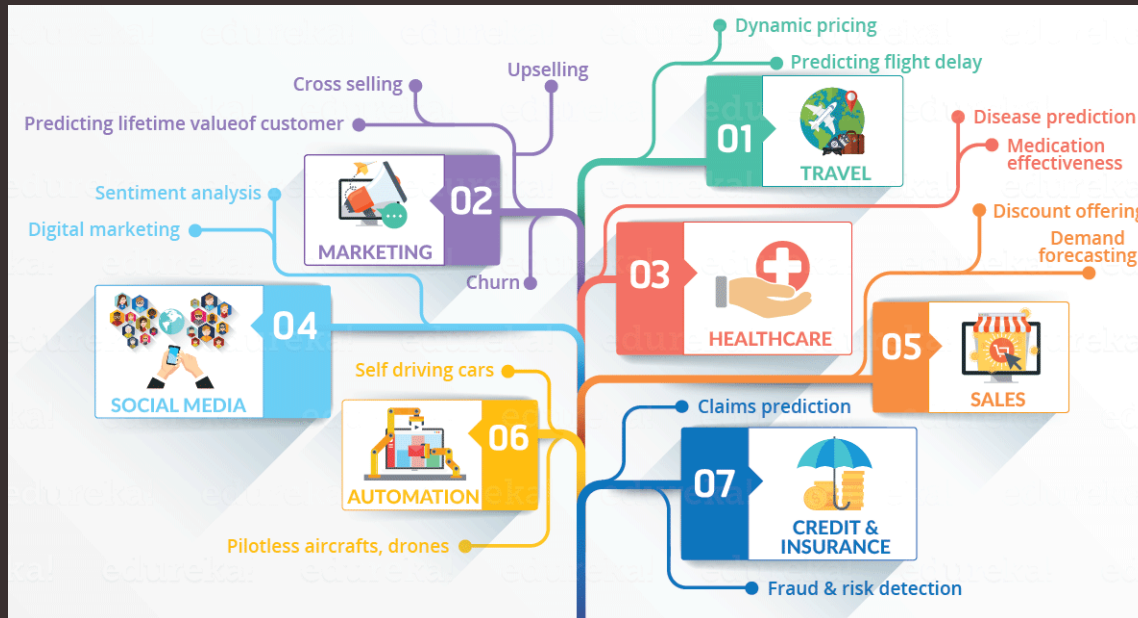
Unsupervised Learning



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Source: Edureka's Data Science Certification Training

AVAILABLE JOBS

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Data Engineer

Perform tasks of data preparation like data cleaning and organizing. They build data pipeline & architecture, and perform data transformation including cleaning, structuring and formatting the data.

Business Analyst

formulate strategic plans for organizations, ensuring that the required information can be utilized and channelized properly. A Business Intelligence is adept in using BI tools to drive innovation in business by keeping track of and analyzing the market trends.



Data Science

Data Analyst

Managing large sets of data and scrutinizing information by using data analysis tools, curate reports of the analysis and presenting them to the management.

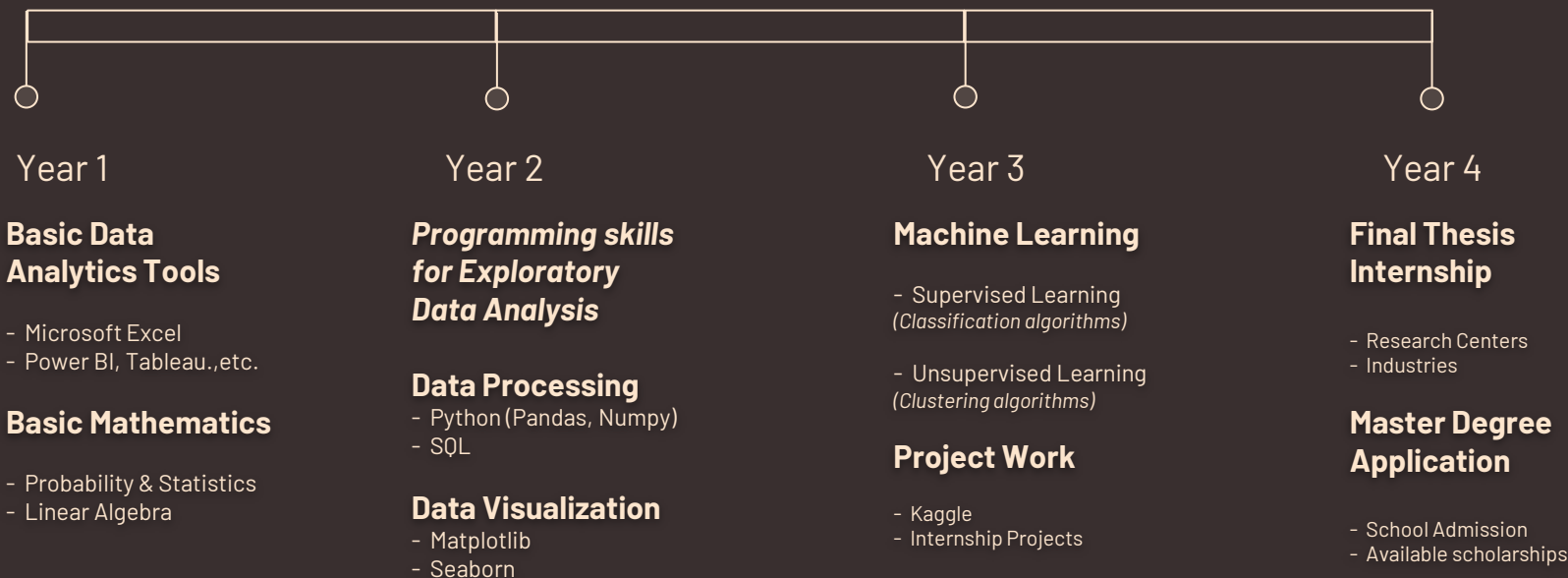
Data Scientist

Perform more technical tasks including data modeling. Data scientists are also responsible for handling huge amounts of data to extricate useful patterns and trends from the data, and build the model to solve the problems.

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Tip #1 : Learn just Enough and Explore more through Practices!

- Start with basic theories and move to implementation!
- Learn how theories/algorithms works (Inputs & Outputs).
(Do not focus too much on the formulas as it makes you feel complicated.)
- Observe how the code implementation reflects the theories/algorithms.

Tip #2 : Do Projects

- Collect the datasets (All we need is a dataset to start the project!)
- Try to apply what you have learn into the dataset immediately!
- Record the accomplished projects and upload to repositories (Kaggle, GitHub., etc) for your portfolio in internship application!

Tip #3 : Iterate!

- Make it your habit! Things will only get better!
- Dive deeper into each lessons and find a more challenging questions!
- Learn to retrieve the dataset by yourself, scraping the data from websites/APIs.

KNN works by finding the distances between a query and all the examples in the data, selecting the specified number examples (K) closest to the query, then votes for the most frequent label (in the case of classification) or averages the labels (in the case of regression).

Fun Fact:

Doing projects can help keep you motivated & entertaining, and explore the unexpected errors that occurs in real world. It gives you the ideas that learning never ends and there will always something new to take notes of!

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Final Tip #4 : Accountability !

- Setting a goal and telling yourself to do your best may not be enough to keep yourself consistent.
- Finding ways to make yourself a hero! You can feel how satisfied it is when you upload your project work into the submission box!
- Enrol in online courses and study consistently (1h/day for 5 days and 5h/day have different results!)
- Hanging out with friends with mutual interests. Create a habit of presenting your works using SLIDES and take turns within your circle/class! Treat it as a meeting so that you can have a party when it ends!



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**Always remind yourself that you are responsible
for your own life journey and never depend on or
expect from anyone.**

**Remember no matter what happens,
Google will always be there for you, by your side!**



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Online Course Resources:

EDX:

Python for Data Science: <https://learning.edx.org/course/course-v1:UCSanDiegoX+DSE200x+2T2020/>

Coursera:

Introduction to Data Science with Python:

<https://www.coursera.org/learn/python-data-analysis>

Data Analysis with Python:

<https://www.coursera.org/learn/data-analysis-with-python/>

Understanding and Visualizing Data with python: <https://www.coursera.org/learn/understanding-visualization-data>

Udemy:

Python Data Science Bootcamp with 5 Data Science Projects:

<https://www.udemy.com/course/data-science-bootcamp-with-python/>



coursera



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**THANKS YOU /
THANKS YOU
FOR YOUR ATTENTION!**



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Q & A




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