Machine Learning with Python
(Taking a dive into Health analysis)

- **Israel Aminu**

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About me

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A brief summary about Machine Learning

- Machine learning is a method of data analysis that automates analytical model building. It is a branch of artificial intelligence based on the idea that systems can learn from data, identify patterns and make decisions with minimal human intervention.
- It’s simply a subset of **Data Science**. **Data Science** is a broad term comprising of statistics, programming, **data** visualization, big **data**, **machine learning** and much more. The term **machine learning** is self explanatory. **Machines** learn to perform tasks that aren't specifically programmed to do.

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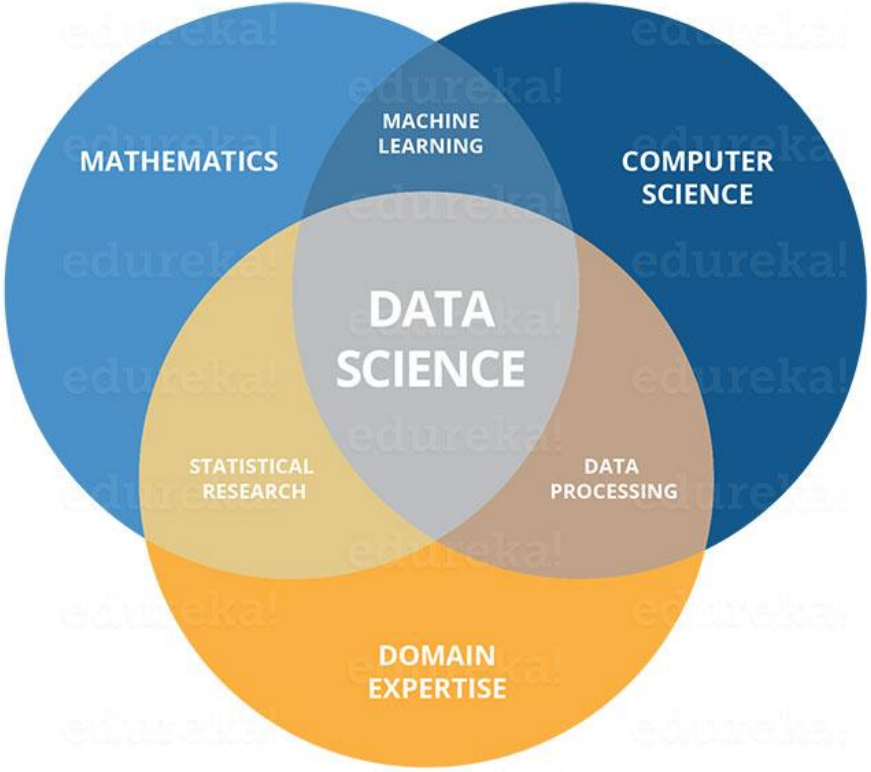
Data Science Venn Diagram



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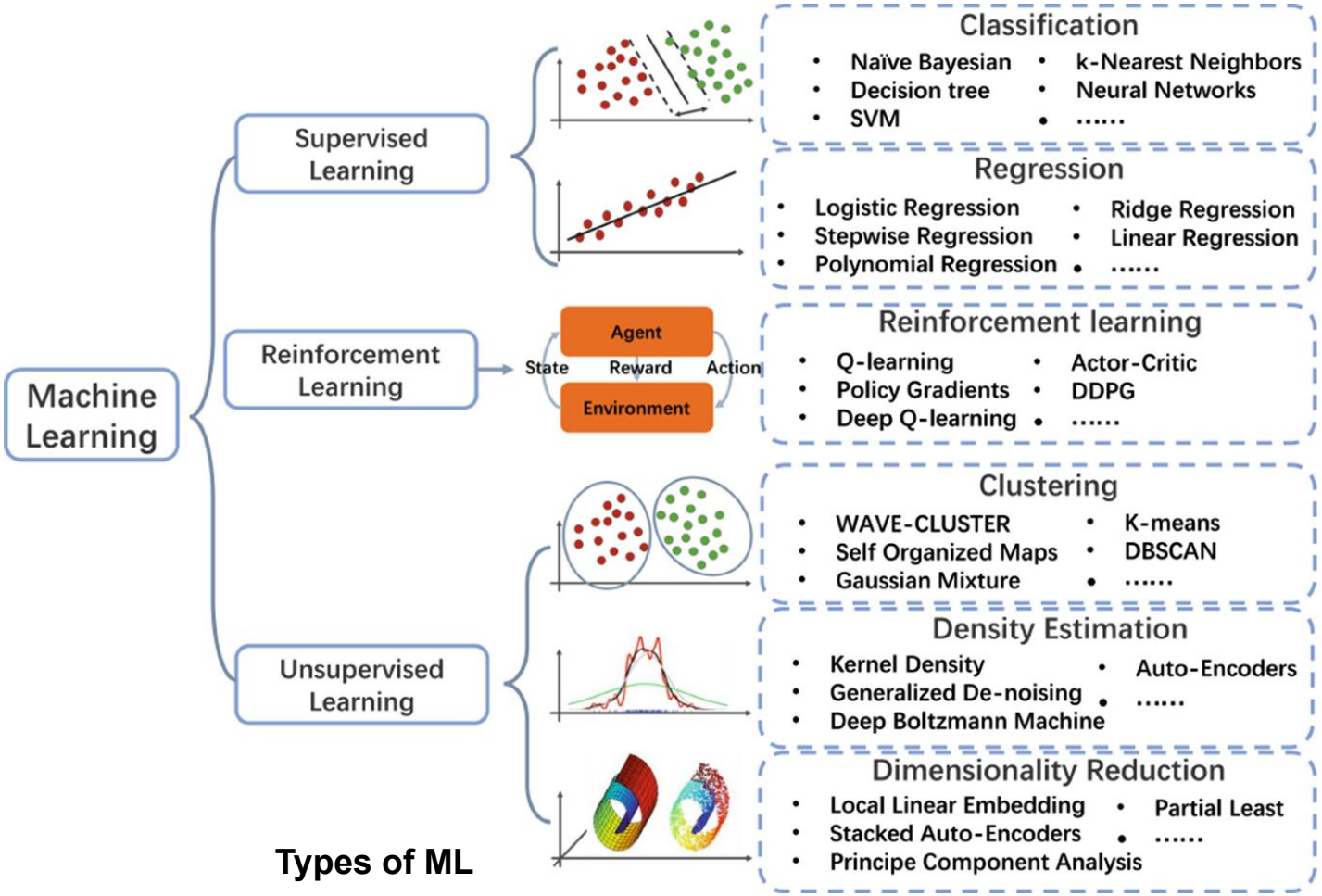

Types of ML

ML algorithms

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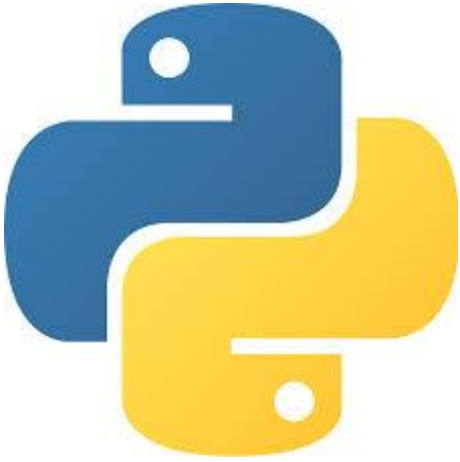
Why Python?

Python is easy to use, powerful, and versatile, making it a great choice for beginners and experts alike. **Python** readability makes it a great programming language — it allows you to think like a programmer and not waste time with complex syntax.



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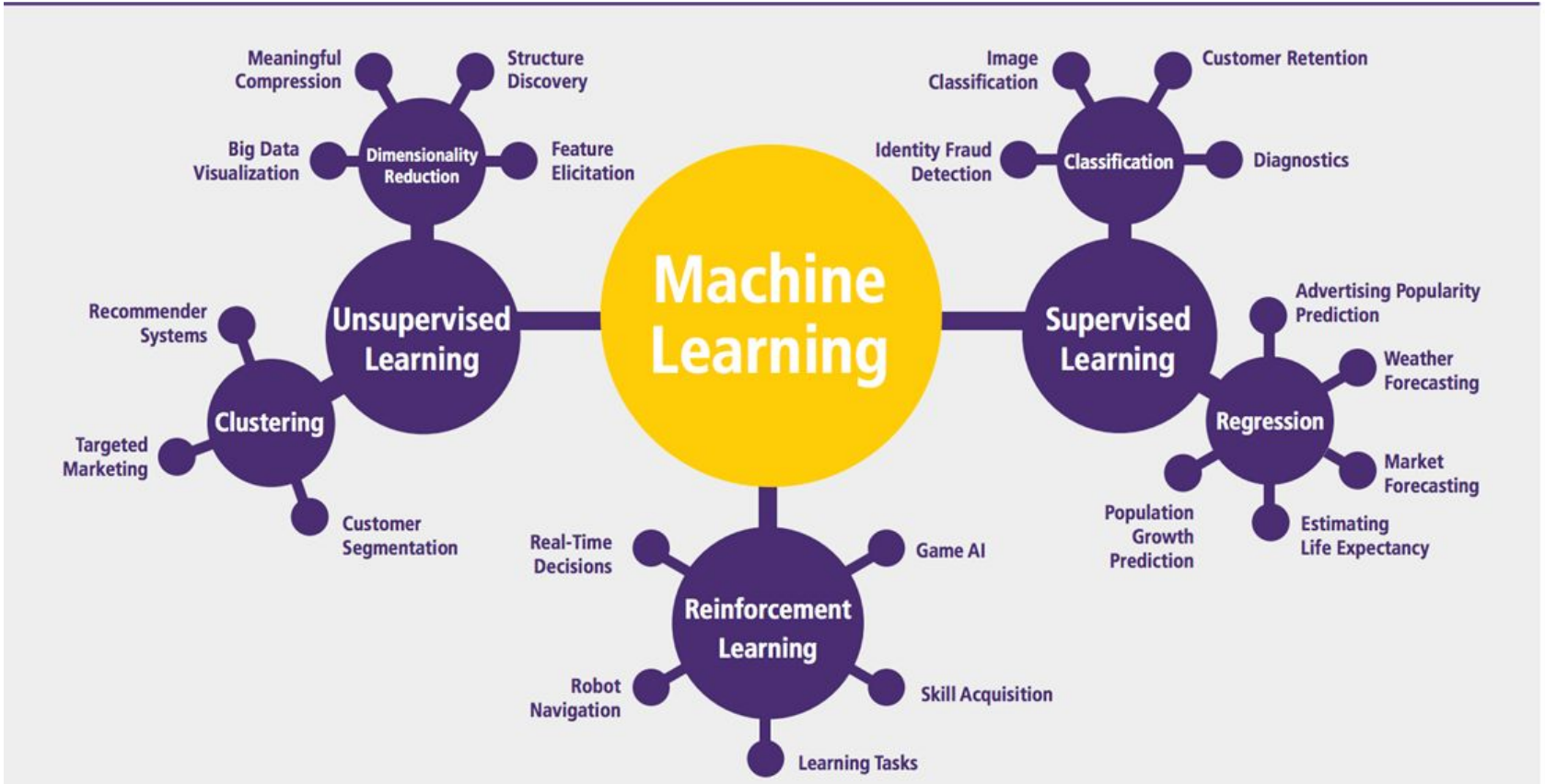

Machine Learning Applications...

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Machine Learning in HealthCare

Machine Learning plays a role in health care in areas such as:

- Imaging and diagnosis of human disease
- Clinical Trial and Research
- Better Radiotherapy
- Outbreak Prediction

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How Data Science plays a role in the COVID-19 pandemic

So far Data Scientist have been able to help us in the ongoing pandemic in areas such as:

- Building Interactive dashboards which gives us an insight about the spread
- Building Machine Learning models to help project future spreads.

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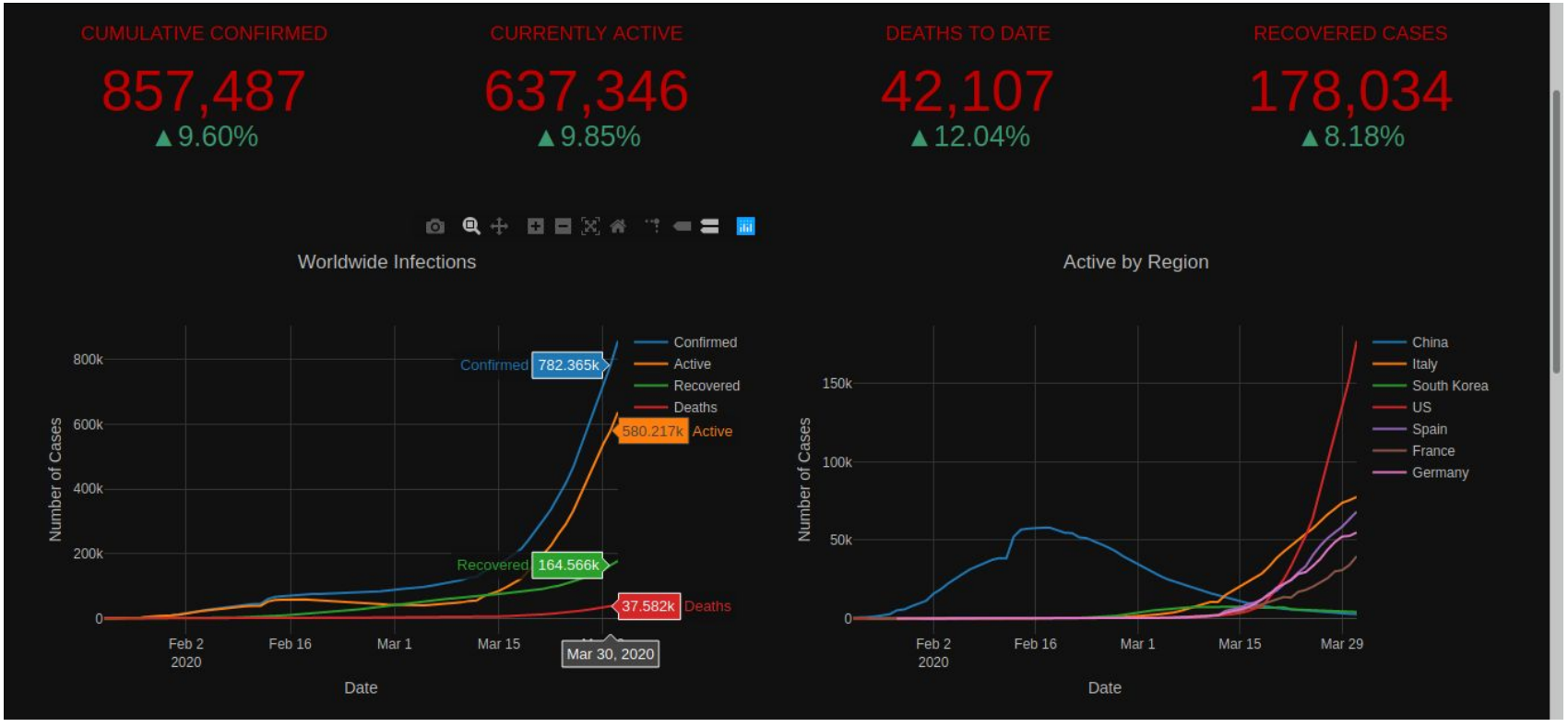

A Dashboard displaying of cases,death and recovered patients in the Covid-19 pandemic.

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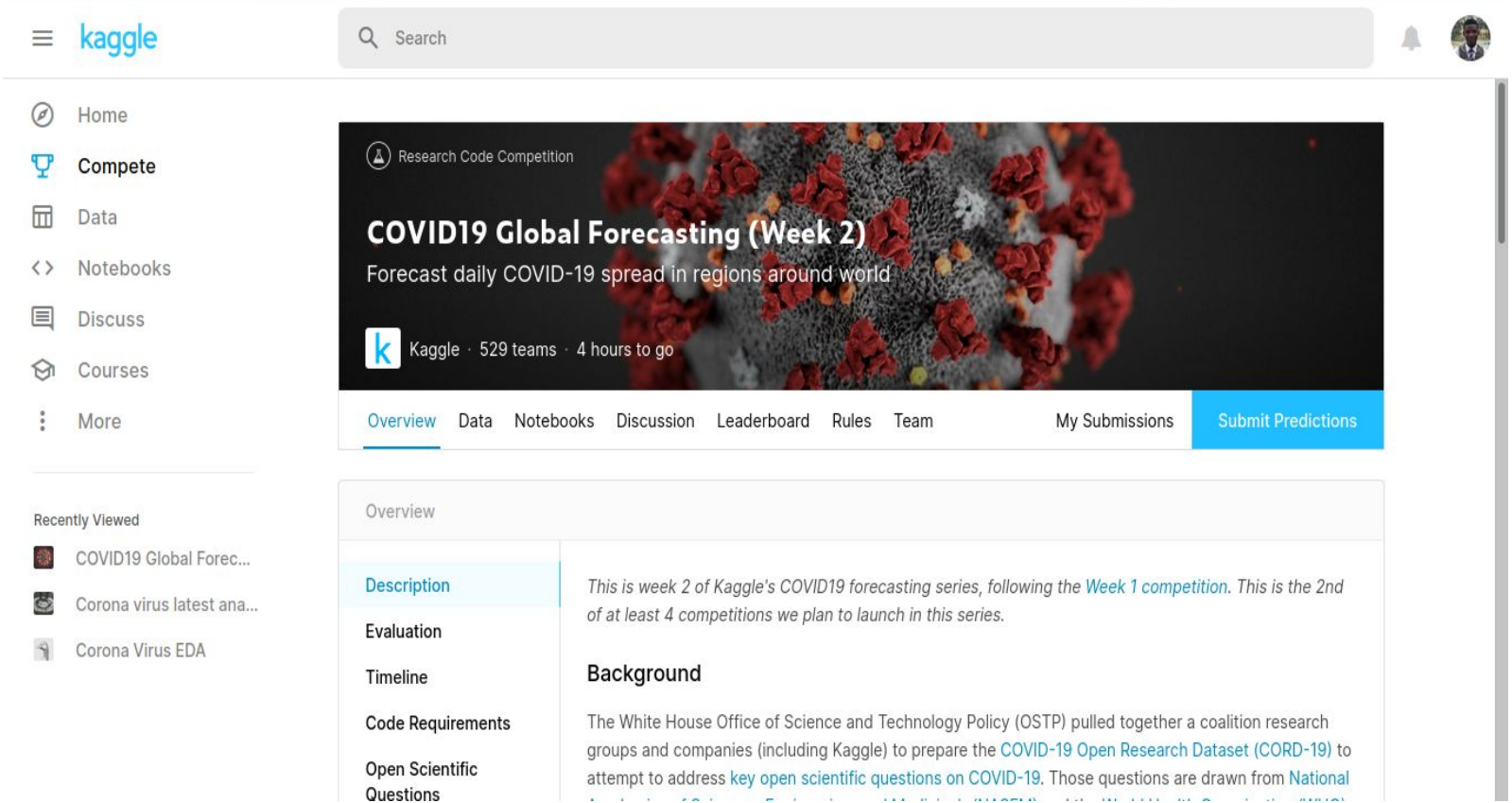

A Kaggle competition which focus on building a Model for forecasting the Covid-19 spread

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So far what we've seen the capabilities of ML.

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Let's build a simple Machine Learning Model.

For this webinar, I'll be building a multi classification model that predicts the Diabetic type of a patient either (Type 1, Type 2, Normal)

Tools

- Python
- Jupyter Notebook

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Questions?

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Thank you!!!

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