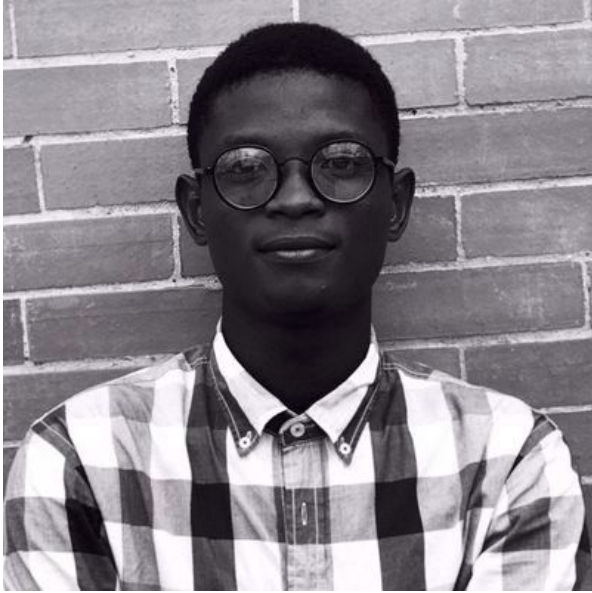


Machine Learning with Python

(Taking a dive into Health analysis)

- Israel Aminu

About me



Israel Boluwatife Aminu

Student @ Lagos State University, Lagos, Nigeria

Data Scientist

DSN AI+ Campus Lead, LASU

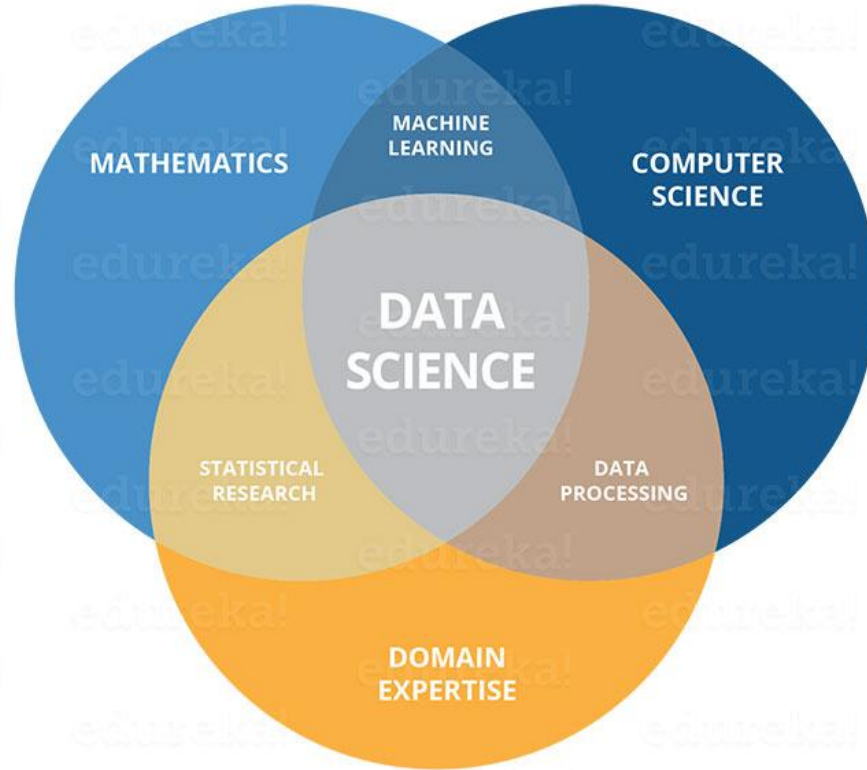
Github  : aminuisrael

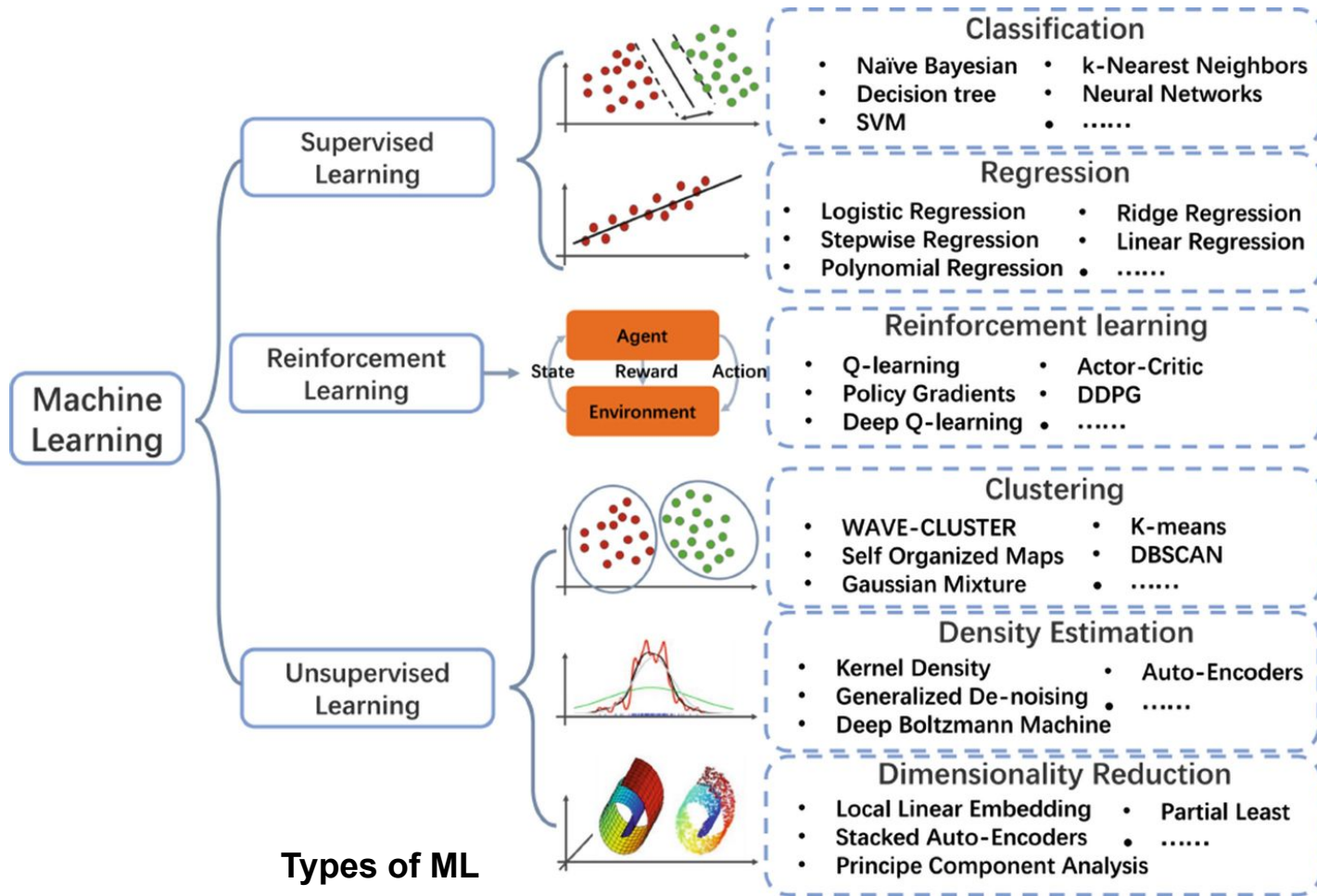
Twitter  : @aminu_israelb

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.

Data Science Venn Diagram



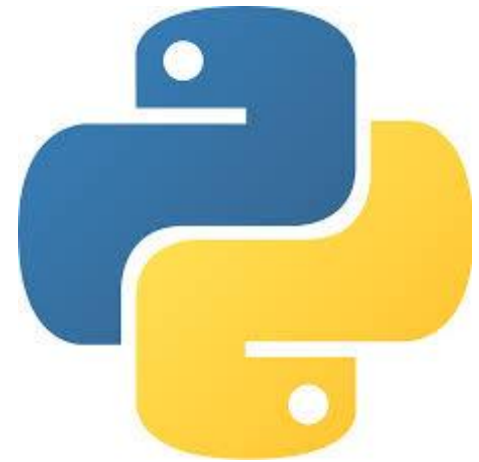


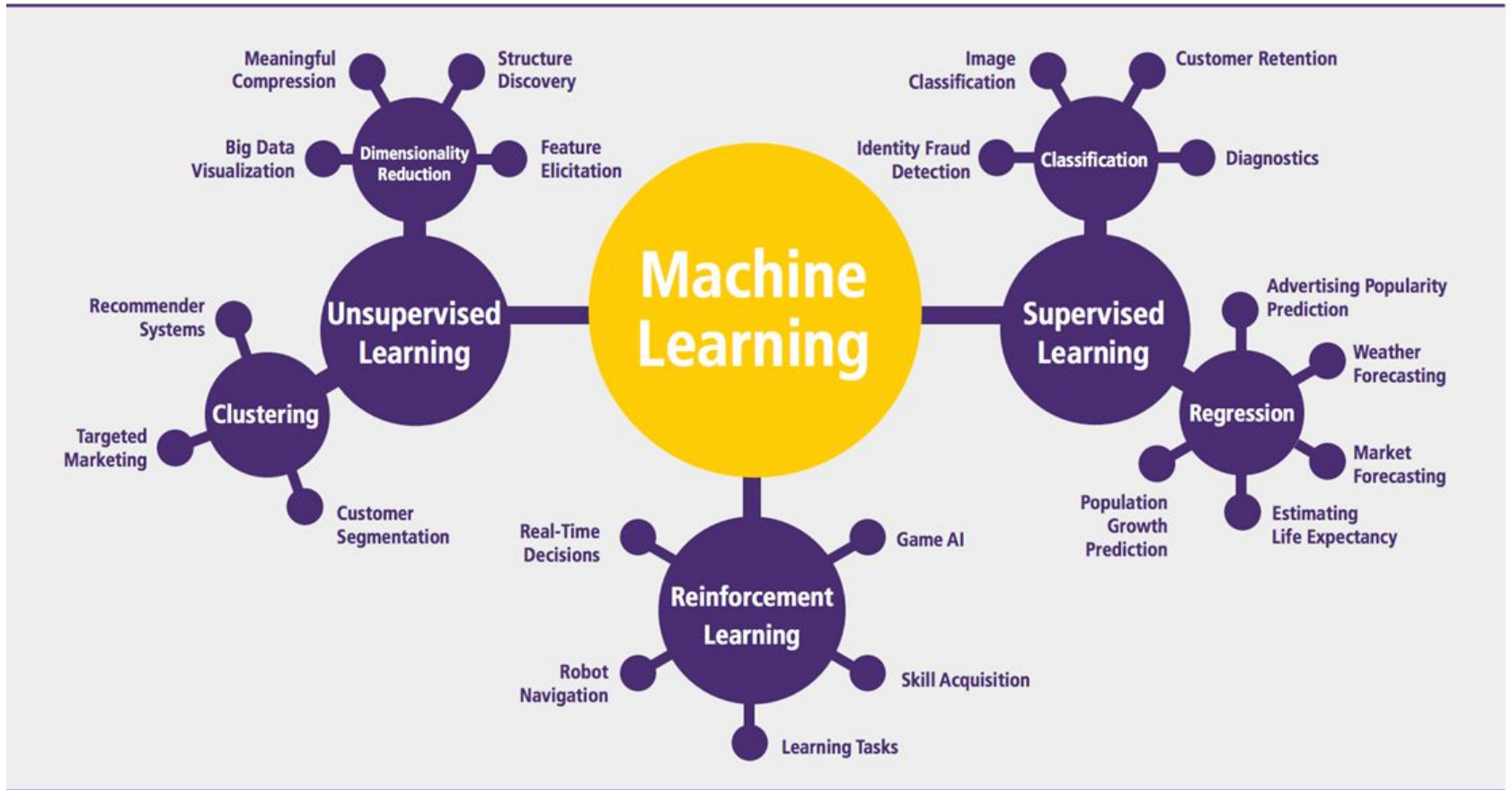
Types of ML

**ML
algorithms**

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.





Machine Learning Applications...

Machine Learning in HealthCare

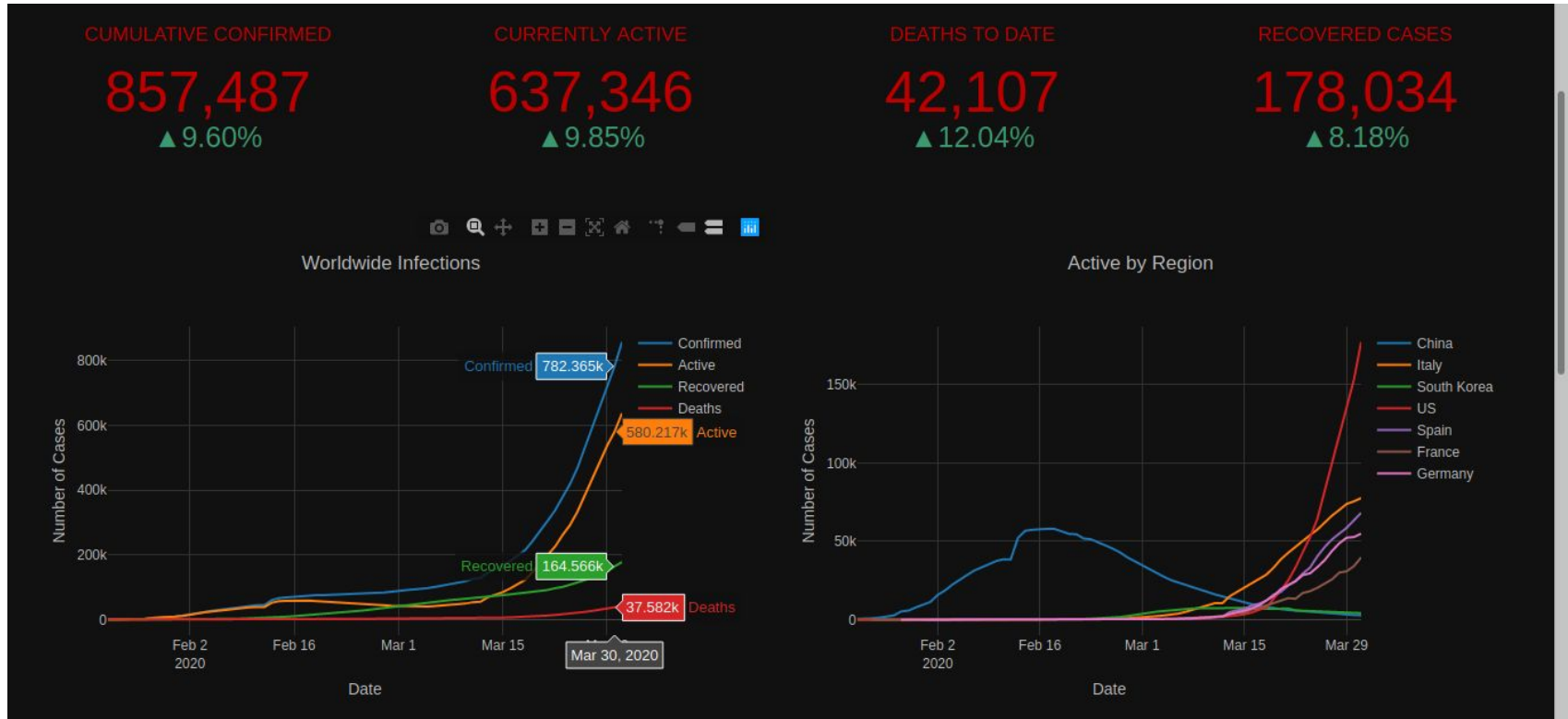
Machine Learning plays a role in health care in areas such as:

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


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.



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



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Research Code Competition

COVID19 Global Forecasting (Week 2)

Forecast daily COVID-19 spread in regions around world

 Kaggle · 529 teams · 4 hours to go

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Evaluation

Timeline

Code Requirements

Open Scientific Questions

This is week 2 of Kaggle's COVID19 forecasting series, following the [Week 1 competition](#). This is the 2nd of at least 4 competitions we plan to launch in this series.

Background

The White House Office of Science and Technology Policy (OSTP) pulled together a coalition research groups and companies (including Kaggle) to prepare the [COVID-19 Open Research Dataset \(CORD-19\)](#) to attempt to address [key open scientific questions on COVID-19](#). Those questions are drawn from [National](#)

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

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

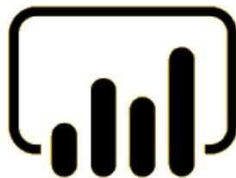
Let's build a simple Machine Learning Model.

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

Questions?



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Thank you!!!

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