

Data Mining

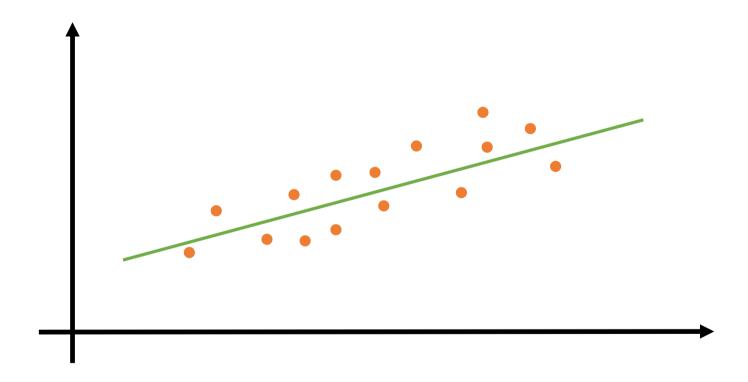
COMP23111 – Database Systems

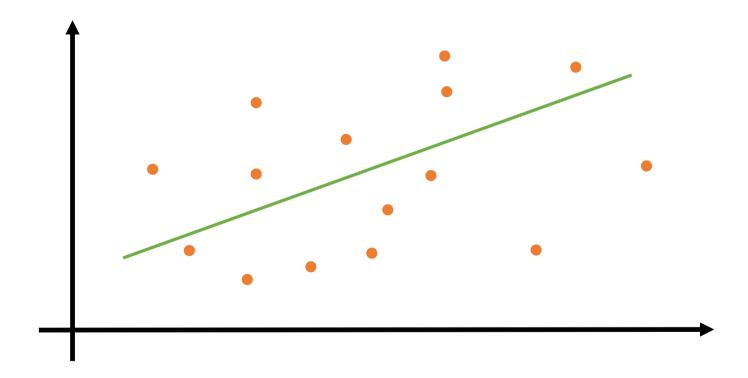
Gareth Henshall

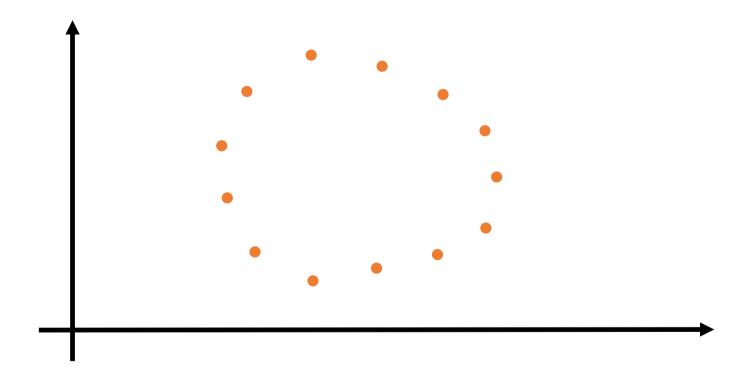
Lecturer in Computer Science

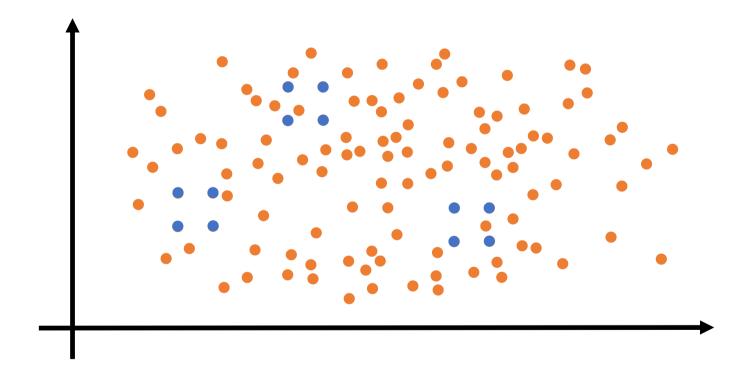
What is Data Mining?

The process of discovering trends and patterns in large sets of data









Data Pre-Processing

Real world data can be:

Incomplete

Missing attribute values:

occupation = " "

Noisy

Contains errors:

salary = "-1"

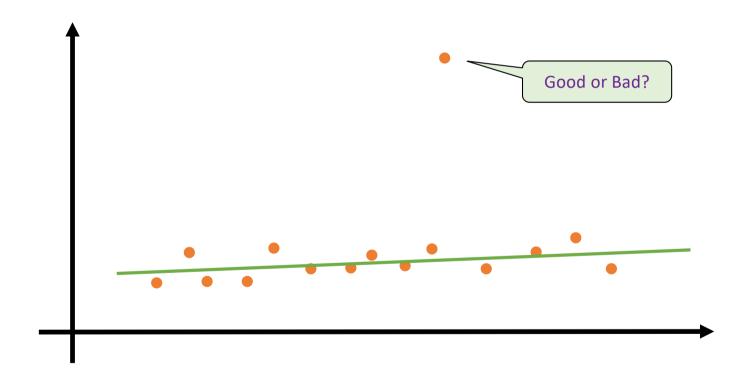
Inconsistent

Contains discrepancies:

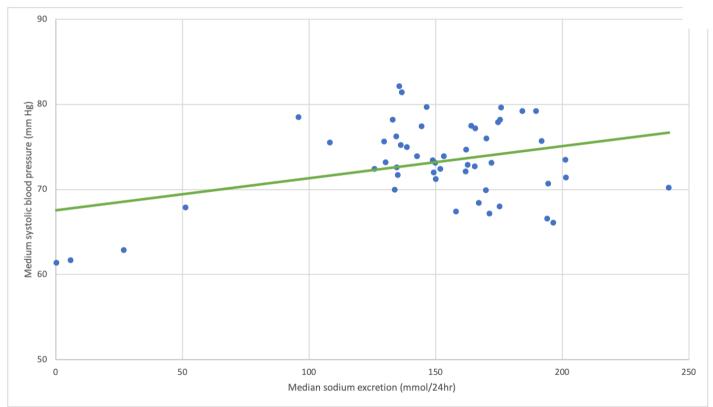
age = "20"

dob = "01/01/1990"

Eliminating Background Noise

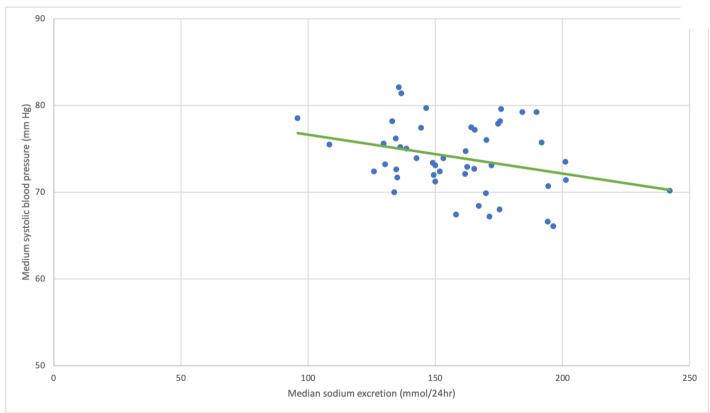


Reading Data Wrong?



Intersalt: an international study of electrolyte excretion and blood pressure. Results for 24 hour urinary sodium and potassium excretion. 1988

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DISCLAIMER!

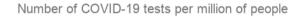
Over the next few minutes we will be discussing COVID-19, if you have been affected by COVID-19 and think you may find the material upsetting stop the vid now.

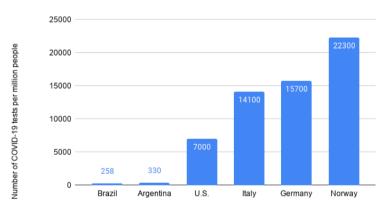
Data in the Media

Argentinian TV channel C5N



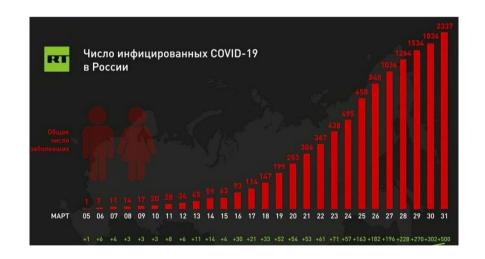
Same graph but with Y Axis



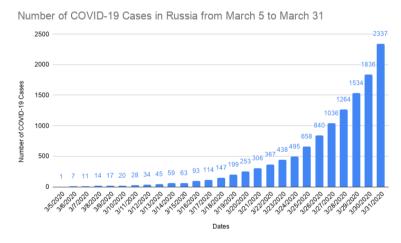


Data in the Media

Russia Flattening the Curve



The Actual Curve



Data in the Media

Georgia Department of Public Health

