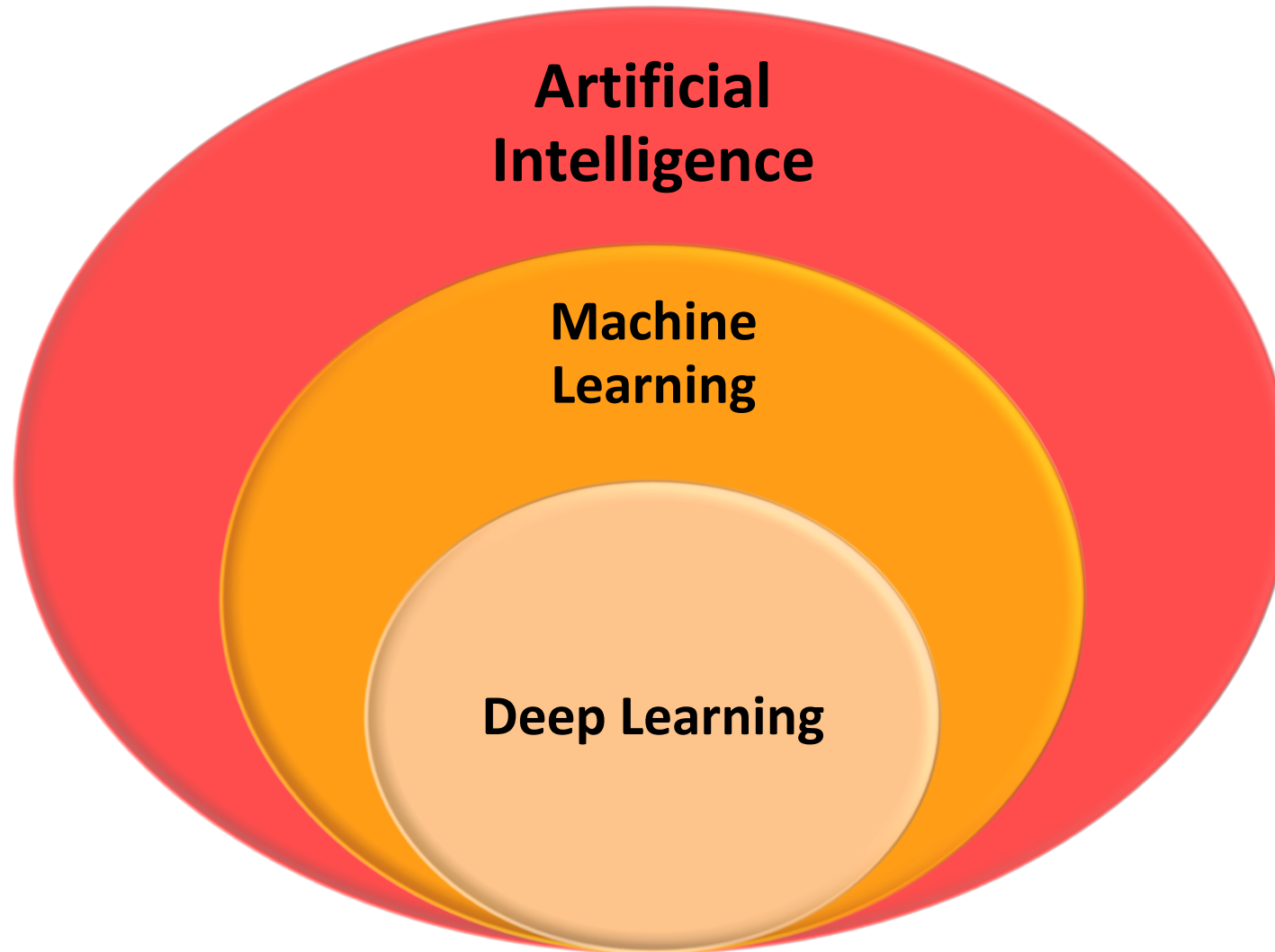


DataScience

Machine Learning Implement & Deploy

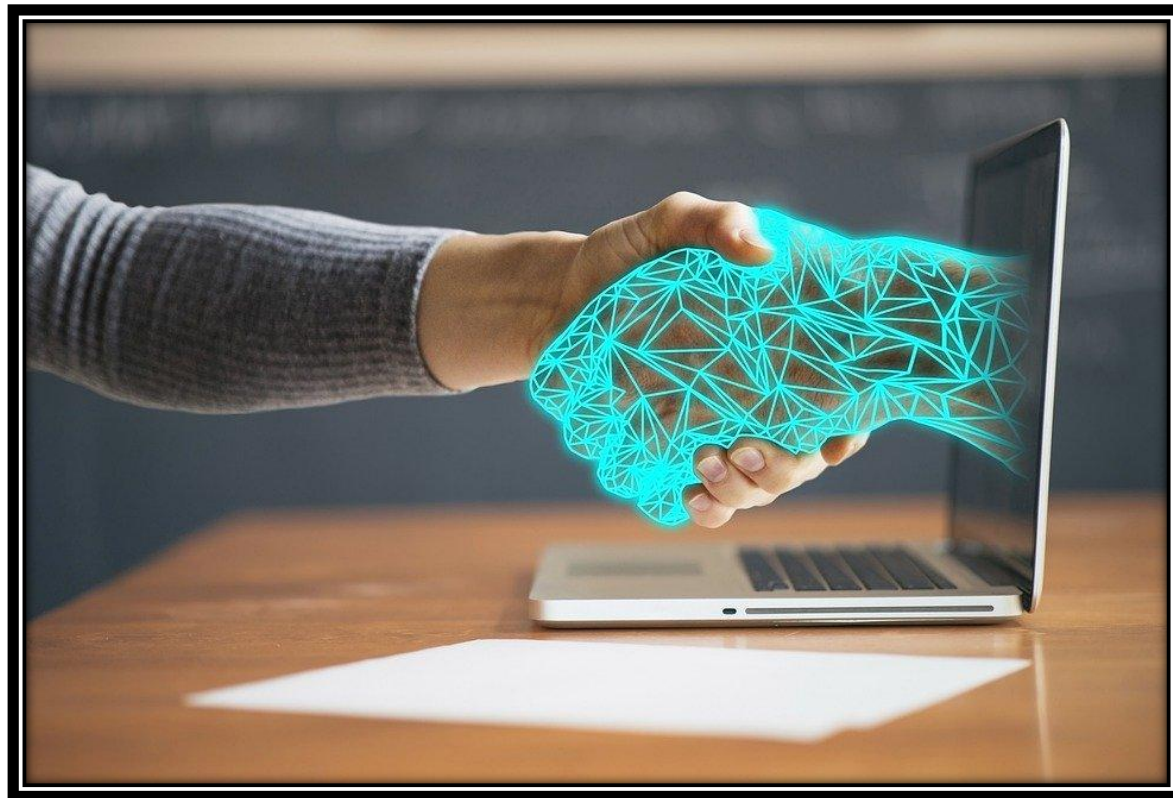
DataScience



Artificial Intelligence

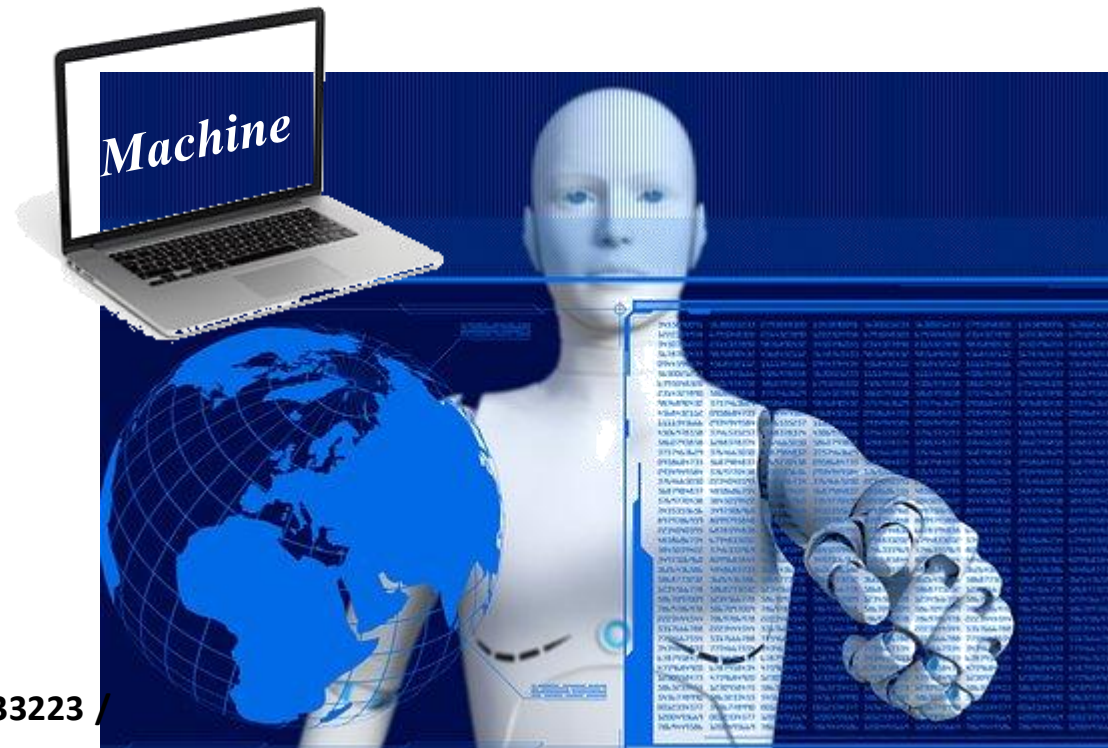
A concise definition of **AI** :

“The effort to automate intellectual tasks normally performed by humans.”



Machine Learning

- Machine learning is the systematic study of algorithms and systems that improve their knowledge or performance with experience.*



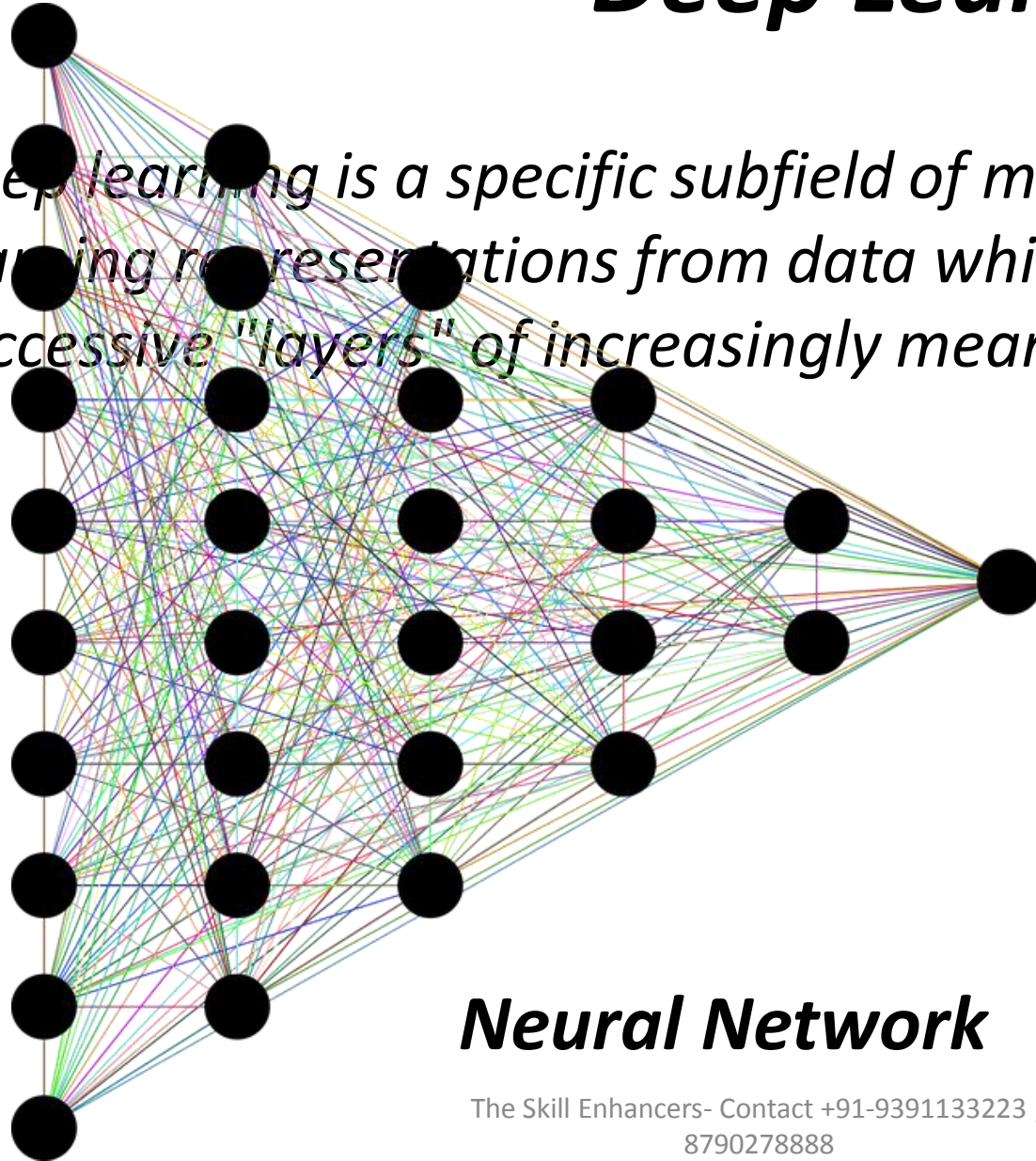
Machine Learning

- A machine learning system is "trained" rather than explicitly programmed. It is presented with many "examples" relevant to a task, and it finds statistical structure in these examples which eventually allows the system to come up with rules for automating the task.*



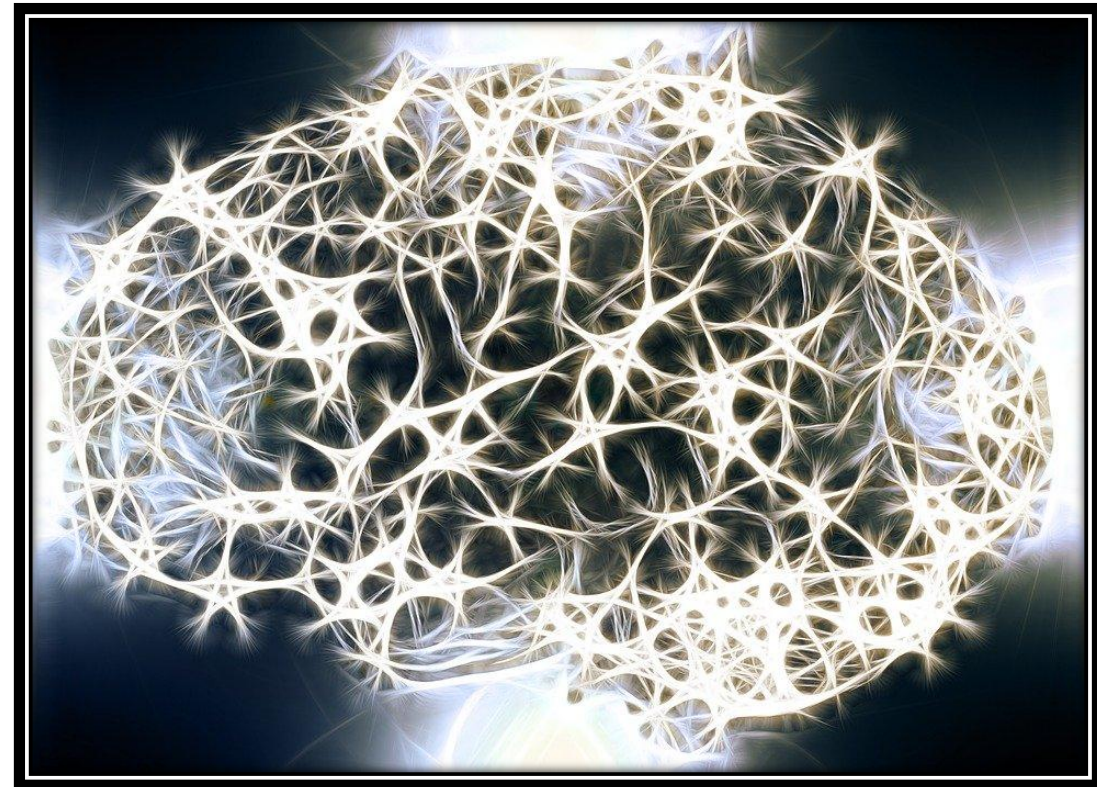
Deep Learning

- *Deep learning is a specific subfield of machine learning, a new take on learning representations from data which puts an emphasis on learning successive "layers" of increasingly meaningful representations.*



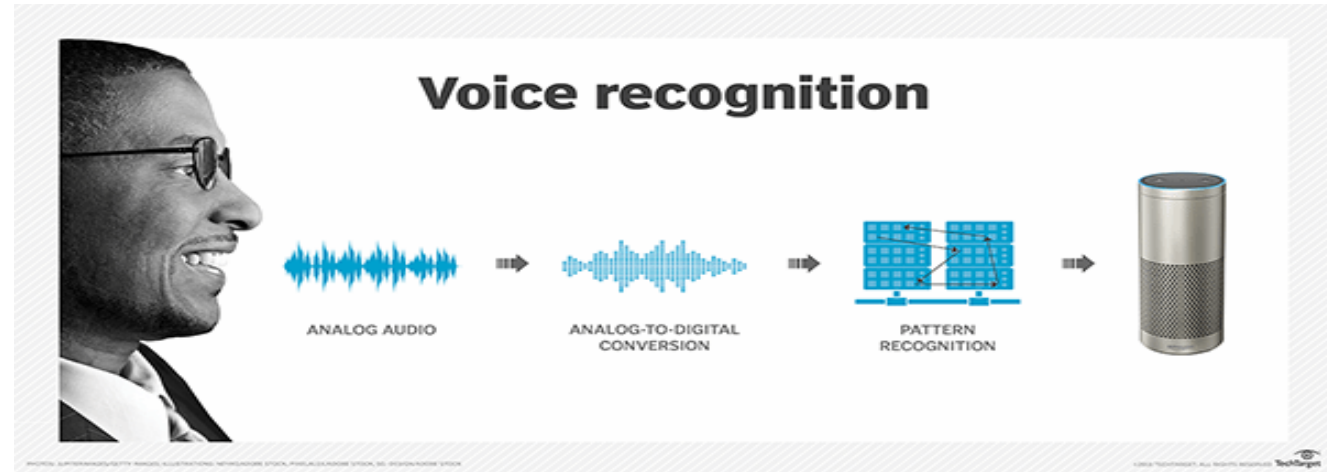
Neural Network

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ML Use Cases

Spam Filters



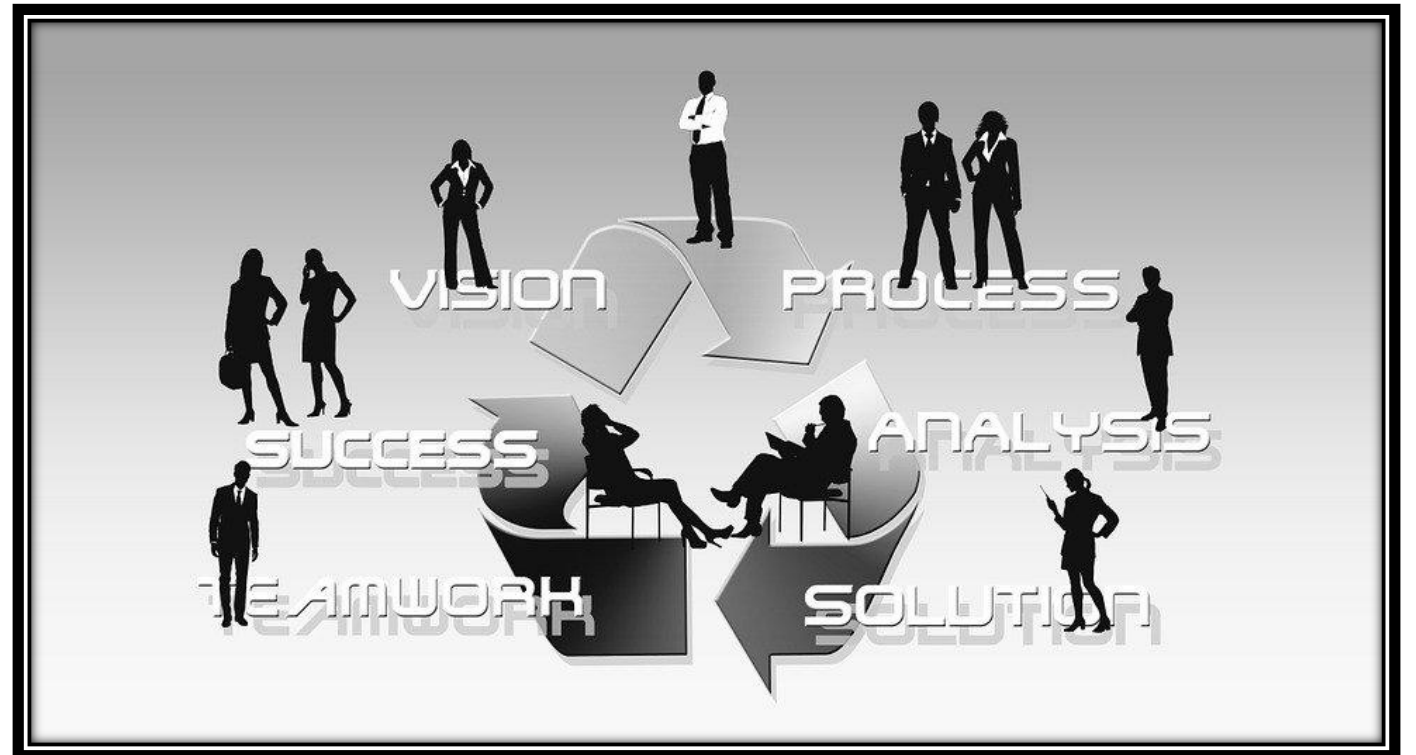
Computer Games

Algorithm to decide whether bank will give loan or not

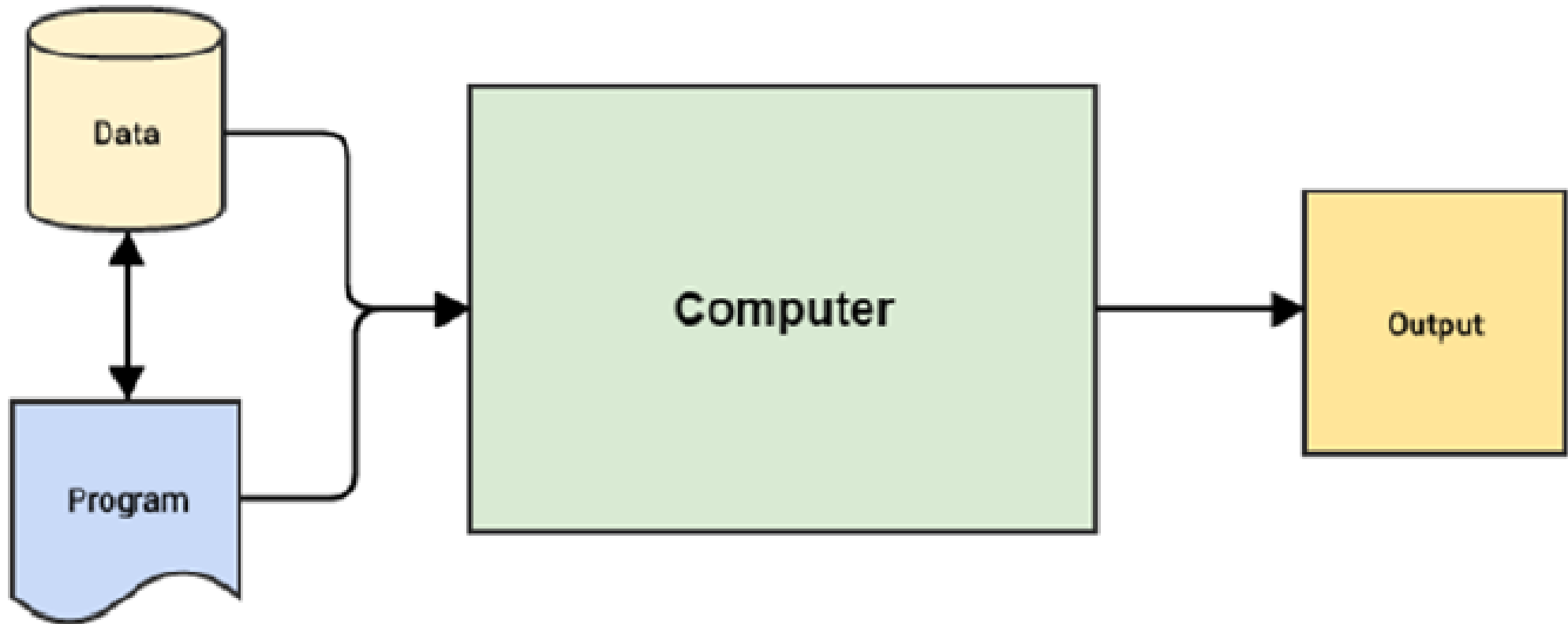


The Need for Machine Learning

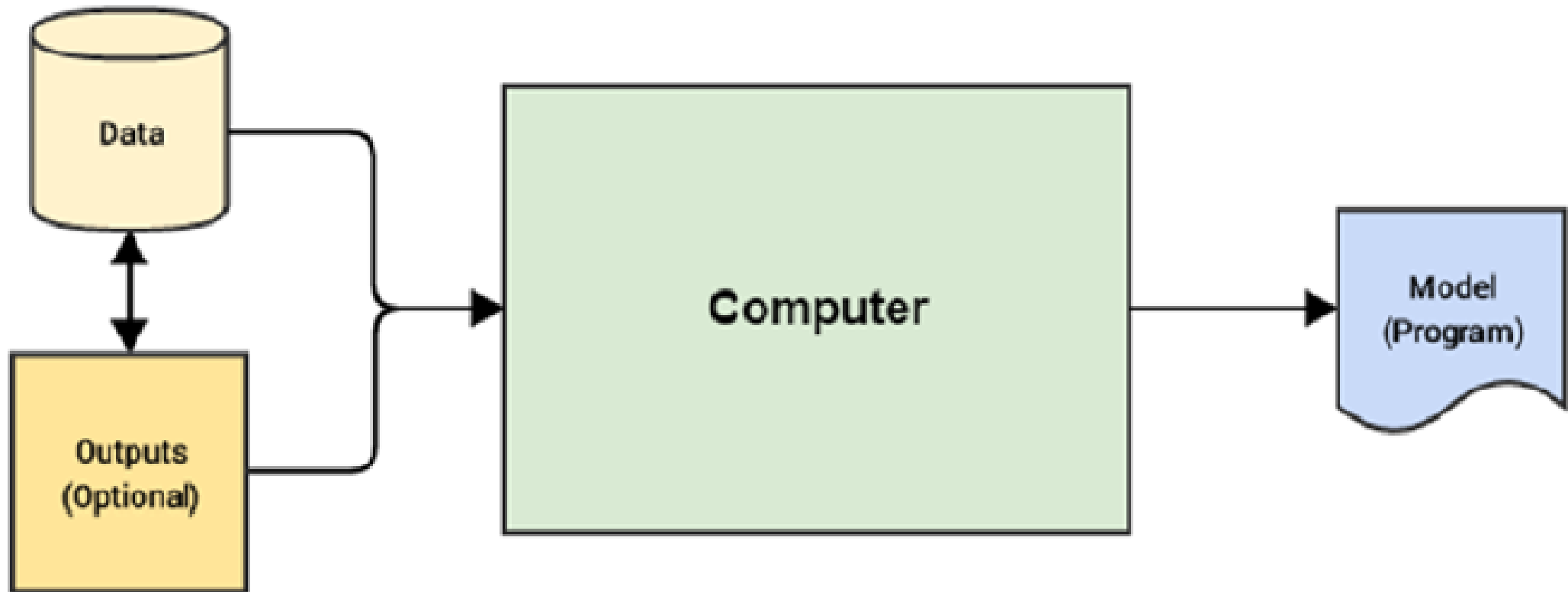
- ***Making Data-Driven Decisions***
- ***Efficiency and Scale***



Traditional Programming Paradigm



Machine Learning Paradigm



Why Make Machines Learn?

- ***Lack of Human expertise***
- ***Scenarios and behaviour can keep changing over time***
- ***Extremely difficult to explain or translate expertise into computational tasks***
- ***Huge volumes of data with too many complex conditions and constraints.***

Typical Machine Learning tasks

- Classification or categorization
- Regression
- Anomaly detection
- Translation
- Clustering or grouping
- Transcriptions

classifying animal images Dog Or Cat ??

predicting housing prices



Indications of Credit Card Fraud



Machine Learning

- ***Supervised Learning***
- ***Unsupervised Learning***