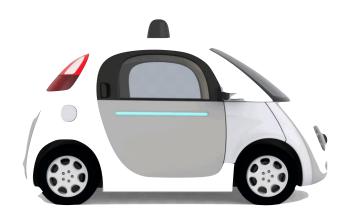


Terminologies and Roles



What is Artificial Intelligence









Artificially Providing (Applications) ability for machines to learn, think and make decisions on there own without human intervention



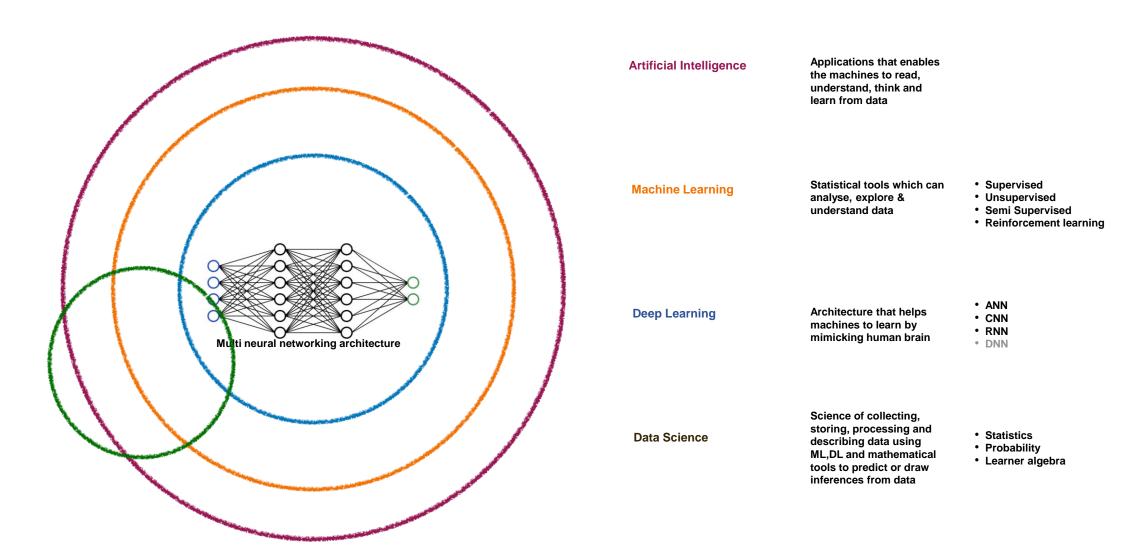
Ajathasatru's Bhuta Vahana Yantra



Talos the Greek Automaton



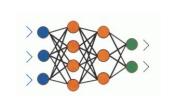
Different Terminologies

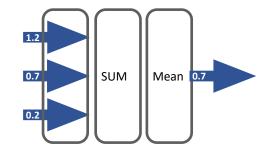




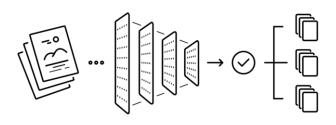
Different Terminologies

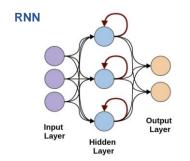
ANN





CNN





	Data Science	Artificial Intelligence	
Scope	Involves various underlaying data operations	Limited to the implementation of ML algorithms	
Type of Data	Structured and unstructured	Standardized in the form of embeddings and vectors	
Tools	R, Python, SAS, SPSS,Keran, Scikit Learn	Scikit Learn, Kaffe, PyTorch,Shogun	
Applications	Advertising, Marketing, internet search engine	Manufacturing, Automation, Robotics, Healthcare	

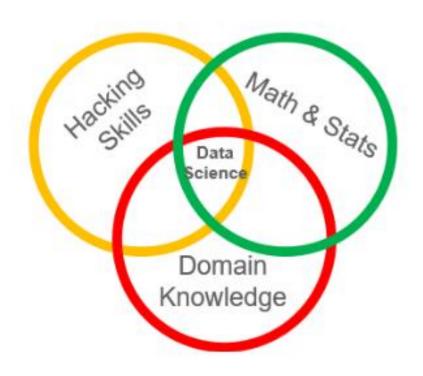


Natural language processing

- What is Natural Language
 - It is the language spoken by humans to express thoughts, actions, feelings, intents.
 - What ever a human speaks, writes, listens to is in the form of Natural Language
- Natural Language Processing or NLP is
 - Machine/Program that interacts with human, understand and process the Natural Language human beings speak
 - Application of computational techniques to the analysis and synthesis of Natural Language and Speech
 - Based on Statistical Language Modeling to "understand" the words

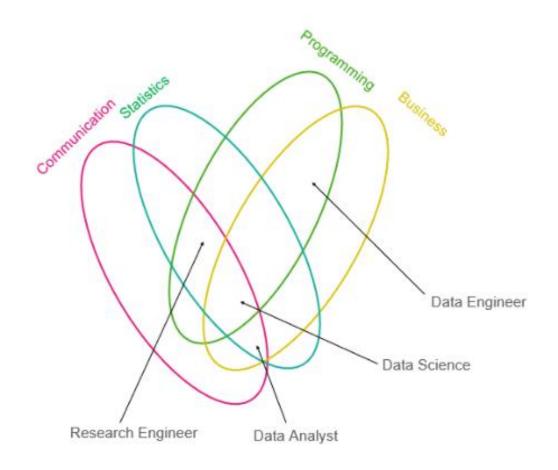


Larger perspective of Data Science





Skills and Roles in Data Science



Roll Vs Knowledge	Business	Programming	Statistics	Communication
Data Engineer	х	х		
Data Analyst	х		x	x
Research Engineer		х	х	x
Data Scientist	х	х	х	х