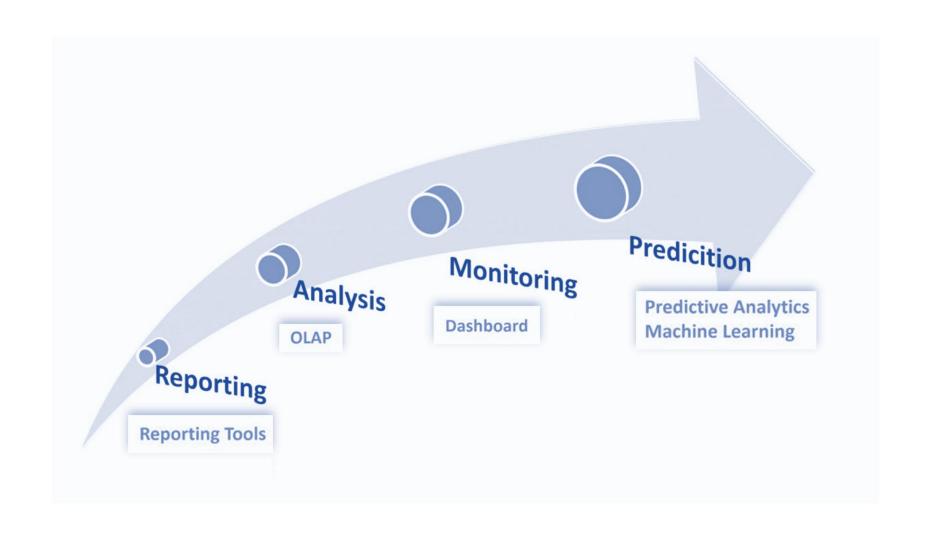
# CRM Data Science Road Map

Jassim Moideen

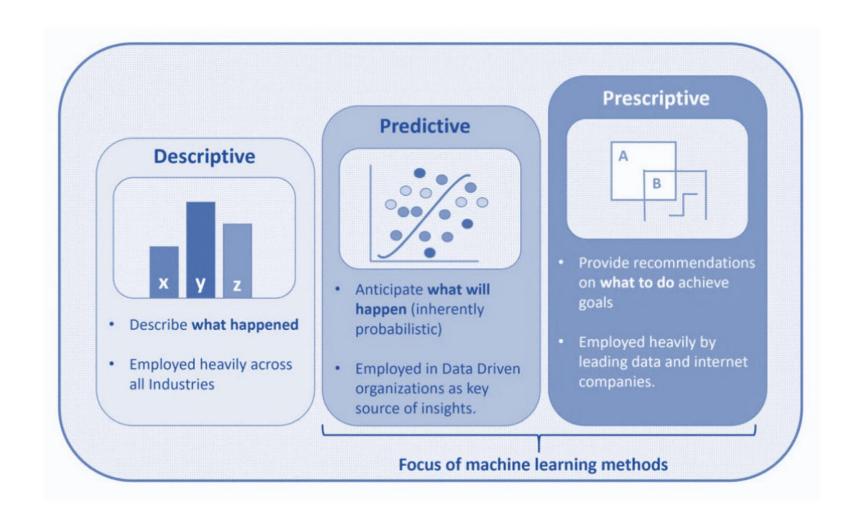
## Evaluate our current state of analytics capability?



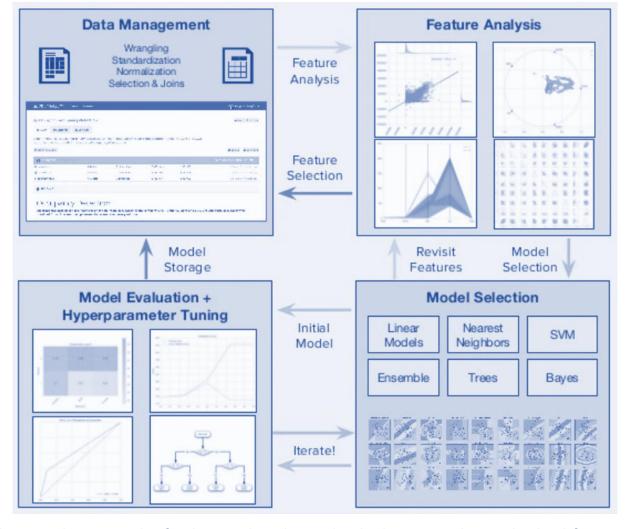
# What constitutes as Predictive Analytics?



## Focus and drive towards moving into the Prescriptive Analytics space.

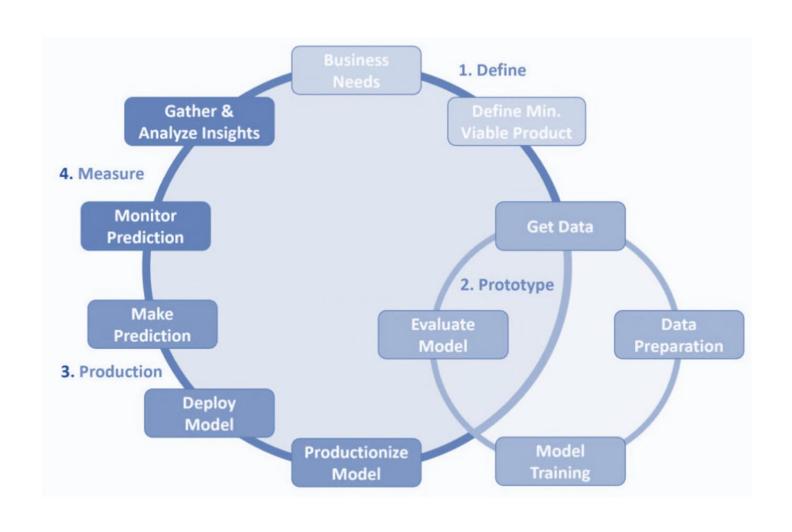


#### Standardise the 4 phases of the Machine Learning workflow process

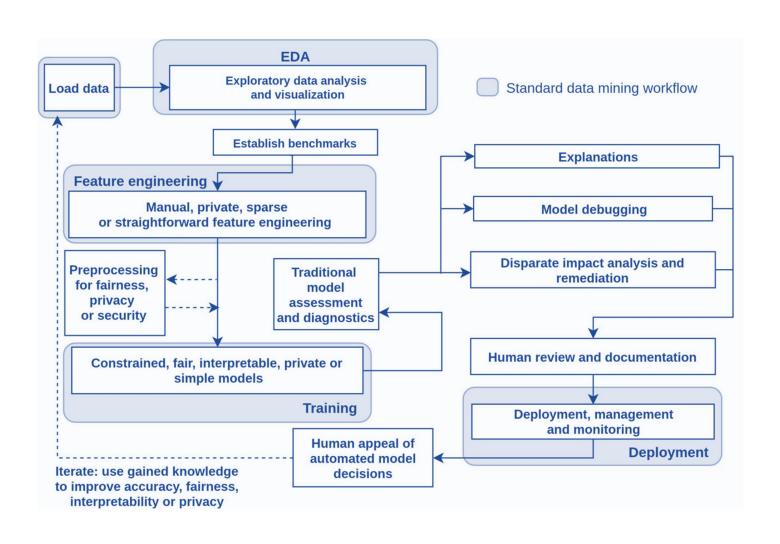


These 4 phases can be further explored as individual areas with standard subfunctions.

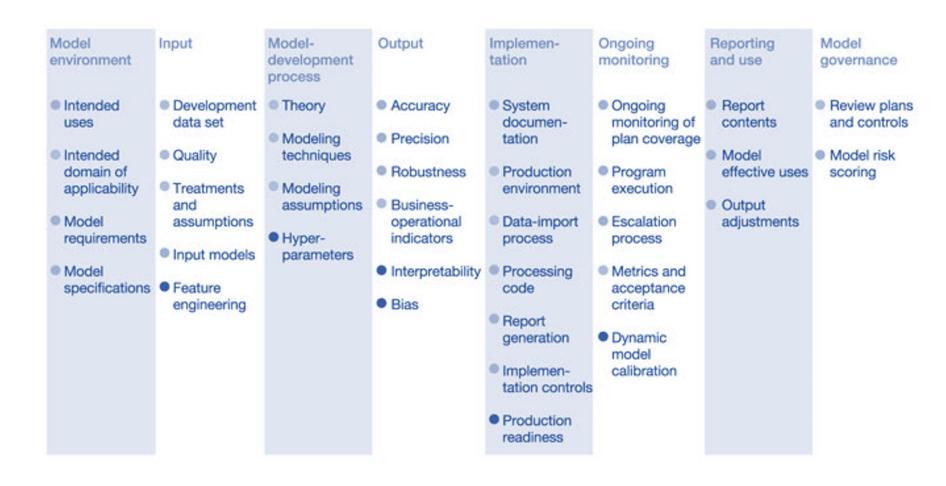
## Update from traditional DWH & BI CRISP lifecycle to a ML based workflow



#### Follow all the steps in the Machine Learning workflow subprocesses



#### Establish a staggered end to end data science practice for delivery



# Ideal Data Science Team Composition – Functional Capabilities

ALENT	TASKS	SKILLS	LEADS	SUPPORTS
Project management	Manage creation of team, timeline, and schedules     Marshal resources     Troubleshoot	Organization     Methodology     (such as scrum)     People management	<ul> <li>During creation of a data science operation</li> <li>During creation and execution of a project</li> </ul>	Ongoing data science operations
Data wrangling	<ul> <li>Find, clean, and structure data</li> <li>Develop and implement data and visualization systems, algorithms, and models</li> <li>Develop templates and systems for repeatable processes</li> </ul>	Coding     Statistics     Systems     architecture	Early in a data team's existence     Early in a project's development	During routine data analysis, hypothesis testing, and visual exploration of data
Data analysis	Develop and test hypotheses on data and data models     Find patterns and useful trends to inform business decisions	Statistics     Scientific method     Critical thinking     Technical and     nontechnical     communication	During routine data analysis, project design, hypothesis testing, and visual exploration of data	<ul> <li>Early in a data team's existence</li> <li>Early in project development</li> <li>During visual communication development and presentations to lay audiences</li> </ul>
Subject expertise	Define business goals     Develop and test hypotheses     Develop nontechnical communication	Functional knowledge     Critical thinking     Strategy development     Nontechnical     communication	<ul> <li>During project design, hypothesis testing, and visual exploration of data</li> <li>During communication to nontechnical audiences</li> </ul>	Early in a data team's existence     During visualization and design process
Design	Develop visual communication and presentations     Create templates and styles for repeatable visualization	Information design     Presentation design     Design thinking     Persuasive     communication	During data     visualization and     the creation of     presentations and     visual systems     (templating)	During visual iteration and prototyping
Storytelling	<ul> <li>Develop stories from data and visuals</li> <li>Help construct presentations in story format</li> <li>Present to nontechnical audiences</li> </ul>	<ul> <li>Information design</li> <li>Writing and editing</li> <li>Presenting</li> <li>Persuasive communication</li> </ul>	<ul> <li>During creation of data visualization and presentations</li> <li>During presentation to nontechnical audiences</li> </ul>	During visual iteration and prototyping