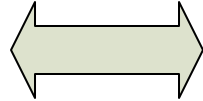


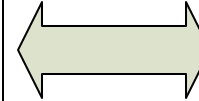
Full Stack Web Development

Node.js – Dynamic scalable control of the entire system

Angular.js
Front end framework



Express
Handles the interactions
between the front and
backends



Mongo DB
The database and stores data to
and from the application



Stacks – LAMP/MEAN/MERN



MERN



MEAN STACK



Mongo DB
(database system)

Express

Express
(back-end web
framework)






















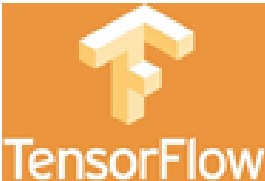





Angular.js
(front-end
framework)



Node.js
(back-end runtime
environment)

B Basics
 C Certified
 E Experienced

Ty's Data Tool Chart

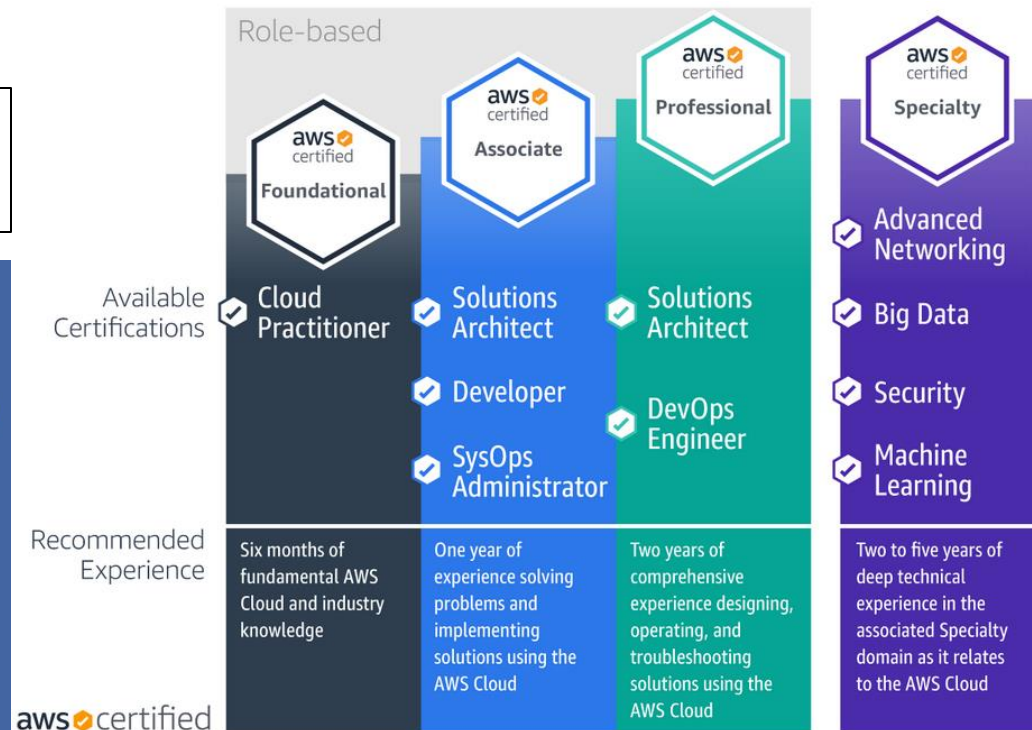
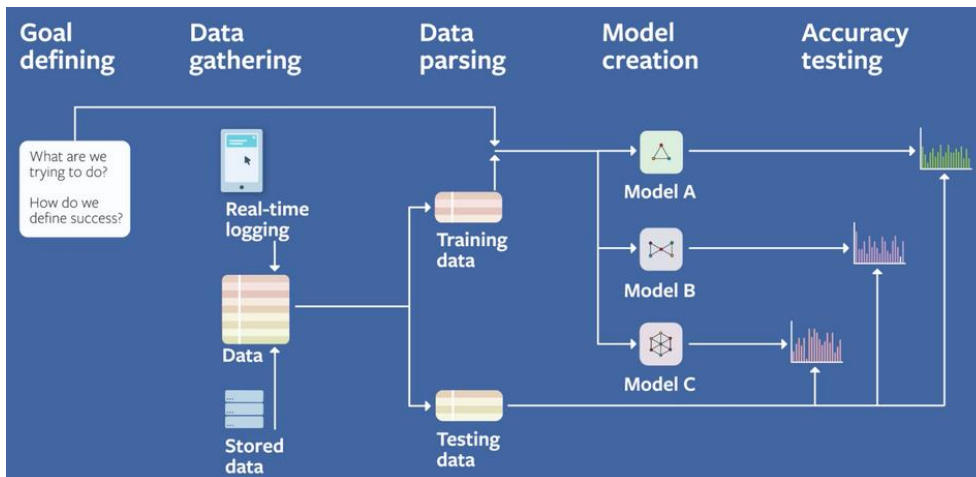
	Extract/Storage/DB	Transform/Analyze	Load/Visualization	Local AI/ML
Small Data		 <p>Excel & VBA</p>	 <p>Pivot Charts & Visual Charts</p>	  <p>Analysis Pack</p>
> 1 Million Rows	   	 <p>python™</p>   	 <p>Tableau</p>  <p>Power BI</p>  <p>matplotlib</p>  <p>Seaborn</p>  <p>neo4j</p>	 
Big Data				<p>Automation Tools</p>    <p>Robot Process Automation (RPA)</p>  <p>MOUSE RECORDER</p>
Public Cloud Providers with AI/ML				

Advanced AI/ML

Local Concepts	Types/Specialties	AWS Tools	AWS Paths
1) Supervised 1.1 Decision Tree 1.2 Ordinary Least Sq. (OLS) 2) Unsupervised 2.1 K-Nearest Neighbor (KNN) 2.2 Logistic Regression 3) Other 3.1 Linear Regression 3.2 Bayes Theorem	1) Natural Language Process 1.1 TensorFlow 1.2 Kera 2) Time Series 2.1 Finance-ARIMA 3) Network Analysis 3.1 Graph Theory/ Social Network Web 4) Big Data 4.1 Apache Spark	<ul style="list-style-type: none"> S3 SageMaker Python Lambda RoboMaker Neptune Mobile Python Java Javascript 	<ul style="list-style-type: none"> Machine Learning Cloud Practitioner Architect Developer Operations Specialty Partners Storage AWS Media Services

*I have a separate doc for AWS ML

AI vs ML vs DL
Artificial Intelligence (AI) -the broad discipline of creating intelligent machines
Machine Learning (ML) -refers to systems that can learn from experience
Deep Learning (DL) -refers to systems that learn from experience on large data sets



Project/Program Manager

Example Responsibilities

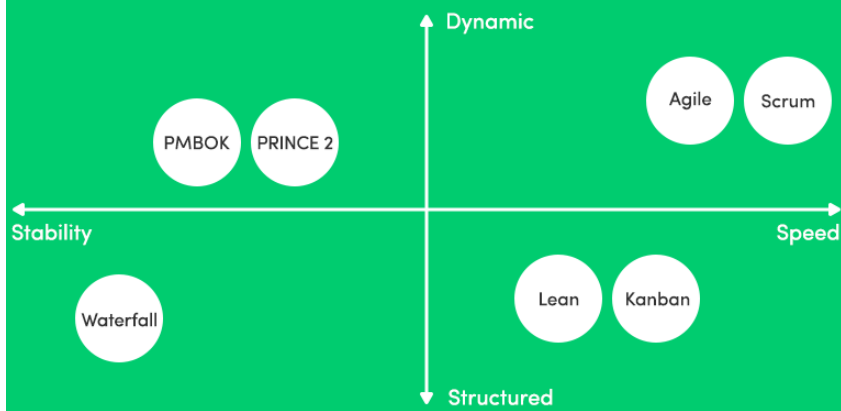
Product Mgr

- Voice of Customer activities
- Design decisions
- Prioritization
- Backlog grooming
- Roadmap construction
- **User adoption**

Project Mgr

- Schedule Construction
- Risk Assessment
- Issue Tracking
- Change Requests
- Budget Run Rate
- Vendor Management
- **Status reporting**
- **Impediments**

Project management methodologies



Agile Versus Traditional Waterfall

Metric	Waterfall	Agile
Planning scale	Long-term	Short-term
Distance between customer and developer	Long	Short
Time between specification and implementation	Long	Short
Time to discover problems	Long	Short
Project schedule risk	High	Low
Ability to respond quickly to change	Low	High

