I love applying my data science and machine learning knowledge along with my software and web development skills to solve complex technical and business problems with simple, efficient solutions. I am a strong thinker and decision maker. I take ownership, and I am obsessed with the customer. I love using data to deliver meaningful results that can move businesses forward with insights into future endeavours.

##### Skills & Tools:

* Pandas, Scipy, SKLearn, Tensorflow, Keras, PySpark, PostgreSQL, Matplotlib, Seaborn, Tableau, NLTK
* Python, Jupyter, Anaconda, Java, C++, Scala, MCMC, CNN, KNN, LTSM, ML Metrics, PCA, Clustering
* Gensim, CLT, Calculus, Linear Algebra, Statistics, Bayes, Public-Speaking, Client-Facing, Leadership
* AWS, Docker, Git, SQL|OQL, JavaScript, jQuery, AJAX, HTML/CSS, Heroku, Google Analytics, A/B Test

##### Projects:

###### [Arabic NLP: Topic Modelling] [Evolution of Islamic Law & Author Prediction](https://github.com/mmayet/evolution_of_law_and_predictions)

* Scraped ~.5M webpages to collect corpus, processed with NLTK, found categorical and temporal trends
* Genre prediction, pre-surveyed experts, insights into recommendations, AWS-Docker-pSQL

###### [Neural Networks] [Digit Recognition w/ CNNs in Keras](https://github.com/mmayet/digit_recognition) [[Kaggle](https://www.kaggle.com/c/digit-recognizer)]

###### [Time Series] [Predicting Presence of West Nile](https://github.com/mmayet/west_nile) [[Kaggle](https://www.kaggle.com/c/predict-west-nile-virus/)]

* Worked with peers, researched biostatistics (mosquitoes, birds, weather), visually mapped data
* Analyzed cyclical trends, optimized ROC AUC scores, addressed stakeholders, mock-CDC presentation

###### [NLP & Classification] [Advertising on Reddit](https://github.com/mmayet/advertise-on-reddit): *r/mildlyinteresting* and *r/mildlyinfuriating*

* Queried API for every post from two subreddits (3gb JSON), Tfidf titles, hypertuned models for accuracy
* Reviewed ensemble classifiers (trees & boost), interpreted feature weights, optimized for accuracy

###### [Regression] [Targeting Undervalued Properties & Maximizing Demanded Features](https://github.com/mmayet/predicting-home-prices-and-features/tree/master/Mud_Mayet_Project_2) [[Kaggle](https://www.kaggle.com/c/dsi-us-5-project-2-regression-challenge)]

* Defined solvable problem, cleaned data set, feature selection, found correlations, communicated results
* Optimized machine learning models, assessed RMSE, scores, interpreted and visualized features

##### Work:

###### Software Engineer, IBM Cloud — *July 2016 - August 2018*

* Configured multi-million device networks, managed data collection, query device topologies
* Refined GUI analytics and understand how to best provide data to the client

###### Misc. Software Internships, IBM IoT & UCI Informatics *June 2015 - April 2016*

* Queried Google Books API and store professors preferences through custom login portal
* Developed front/back end features an enterprise code base and repo with server builds in an Agile environment

##### Just For Fun:

[LastQuake.herokuapp.com](http://lastquake.herokuapp.com/) | [ArabicTypist.com](http://arabictypist.com/%27) | [MMayet.github.io](http://mudmayet.herokuapp.com/)

##### Education:

* Informatics & Software Engineering B.S., UC Irvine Spring 2016
* Data Science Immersive, General Assembly Fall 2018
* Arabic M.A., Institute of Knowledge Summer 2019