# Mudassir Mayet

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https://mmayet.github.io/

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
- 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 [Kaggle]

[Time Series] Predicting Presence of West Nile [Kaggle]
- 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: *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 [Kaggle]
- 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 | ArabicTypist.com | MMayet.github.io

## 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