



# OMAR ABUSHEIKH

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**Location:** Austin, TX, USA

## MACHINE LEARNING / DATA SCIENCE

### TECHNICAL SKILLS

- Python
- R
- Machine / Deep Learning
- SciKit-Learn
- Tensorflow / Keras
- Numpy / Scipy / Pandas
- Heroku / FloydHub / AWS
- Linear Algebra / Probability
- Advanced Statistics
- Calculus / Differential Equations
- SQL / MySQL / Oracle / Sqlite
- NoSQL / MongoDB
- ETL / CRUD
- Data Collection / Wrangling
- Full-Stack / API Restful
- HTML / JS / CSS
- Node Package Manager (npm)
- Web Scraping
- Git / Github
- Regular Expressions
- Excel / VBA

### CURRENT WORK EXPERIENCE

#### MACHINE LEARNING ENGINEER

##### TABSCANNER - 04/2019 - PRESENT

- Raw data collection, cleaning, preprocessing, & training of Optical Character Recognition (OCR) model
- Performance optimization, hyperparameter tuning, & feature engineering
- Production API testing, support, development, & documentation
- Backend configuration & customization of MySQL Database

### TECHNICAL PROJECTS

#### CAT OR DOG CLASSIFIER | [GITHUB](#)

- Technologies: Tensorflow, keras, FloydHub, matplotlib, numpy, Flask, Requests,
- Convolutional Neural Network model (CNN) trained on 25,000 images to predict whether a given image is a cat or dog,
- Full-Stack (ETL) Python-Requests Web Application deployed on Heroku

#### DIGIT CLASSIFIER | [GITHUB](#)

- Technologies: Tensorflow, keras, FloydHub, matplotlib, numpy, Flask, Requests,
- Convolutional Neural Network (CNN) model trained on 60,000 hand drawn digits from the MNIST dataset, Model predicts hand drawn integer by user,
- Full-Stack (ETL) Python-Requests Web Application deployed on Google Cloud.

#### EARTHQUAKE VISUALIZER | [GITHUB](#)

- JavaScript visualization developed using leaflet.js & d3.js, & data retrieved via API calls from the USGS,

### PREVIOUS WORK EXPERIENCE

#### PROJECT SPECIALIST (SQL DATABASES)

##### ADVANCED 1 - 10/2015 TO 04/2019

- Provide SQL (Oracle 11g) database technical support, troubleshooting, & error resolution in over 15 projects
- Specialized in database quality control, with fluency in all client' project definitions & standards, from BAUs to as-builds
- Coordinated special project db updates, including design team training, process implementation, & documentation,
- Daily data analysis via Excel (PivotTables, VLOOKUP) to determine error stats, prevailing trends, & resolution strategies.

#### RESEARCH ANALYST

##### PLASMATRONYCS (START-UP) - 2013-2014

- Assessed commercial viability (Quicklook methodology) & feasibility of 'plasma gasification' waste-to-energy technology
- Supported engineering team of 4 people with creation of functional prototype, by sourcing materials & product testing
- Collaborated on business plan (used in '14 Tx Venture Labs competition) where team was picked to join ATI's SEAL Program.

### EDUCATION

#### UNIVERSITY OF TEXAS AT AUSTIN

##### MCCOMBS SCHOOL OF BUSINESS

*Data Analysis & Visualization Certificate*

#### UNIVERSITY OF TEXAS AT AUSTIN

*Bachelors in Mathematics*