# Mohammed Ali Memon

Data Analyst/Scientist

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**An entry-level Data Scientist with a 3 months experience as a Machine Learning Engineer who likes to build Machine Learning Algorithms. I'm very dedicated and hardworking. I've also completed a few projects on Deep Learning(CNN, LSTM), NLP and Computer Vision using openCV and also TensorFlow. I have also worked with deploying machine learning models on Google Cloud Platform.**

## Work History

2020-02 - 2020-04

### Machine Learning Engineer

*Headstrt, Mumbai, Maharashtra*

As a Machine Learning engineer I worked with

- Building, training, testing and deploying machine learning algorithms and worked with many machine learning algorithms like random forest, XGBoost, Gradient Boost, Decision Tress etc for predicting the price.
- HyperParamater tuning of machine learning algorithms.
- Writing Heuristic Rules based on lambda transformations.
- Econometric analysis of demand and supply.
- Deployment of machine learning algorithms as a REST API on Google Cloud Platform.
- Automate training and testing using Google Cron Jobs.
- Machine Learning models with Tensorflow
- Pre-trained TFLite models deployment on Google MLKit and AutoML
- Semantic search engine using Tensorflow's pre trained model Universal Sentence Encoder.
- Product Recommender Systems: Collaborative based, Content based and Hybrid.

2017-12 - 2018-01

### Sports Analyst

*HUDL, Mumbai, India*

**Working as a Sports Analyst my job was to analyse different types of games like football, basketball, american soccer etc.**

## Machine Learning Projects

**1) Machine Learning** : A project based on Machine Learning in Python. A dataset containing 855000 observations and 72 variables belongs to a company named XYZ Corp. Based on the data that is available during loan application, my task was to build a model to predict default in the future. This will help the company in deciding whether or not to pass the loan.

**Link** : https://github.com/ali9653/XYZ-Corp.git

**2) Convonutional Neural Networks** : A project based on Convonutional Neural Networks(using TensorFlow backend). Predict between a Cat or a Dog. The dataset contains 10000 images, 5000 belonging to Cats and the rest 5000 belonging to Dogs. The training_set contains 8000 images while the test_set contains 2000 images.

**Link** : https://github.com/ali9653/Image-Processsing---Convolutional-Neural-Network-Project

**3) Natural Language Processing** : Sentiment Analysis of movie reviews using NLTK.
**Link** : https://github.com/ali9653/Sentiment-Analysis-NLTK

**4) The MNIST database of handwritten digits** :
**a) Using basic TensorFlow Approach** :

**Link** : https://github.com/ali9653/MNIST-TensorFlow-SoftMax

**b) Using CNN with TensorFlow** :

**Link** : https://github.com/ali9653/MNIST-with-TensorFlow-CNN

**5) Movie Recommendation System:** A collaborative movie recommendation system built with the LightFM Algorithm and deployed using Flask Restful API

**Link** : https://github.com/ali9653/Recommendation-System-LightFM

**6) Stock Market Prediction** :
**a) Stock Market prediction using Linear Regression , Support Vector Machine** :

**Link** : https://github.com/ali9653/Market-Prediction-using-ML

**b) Stock Market Prediction using Neural Networks (LSTM)** :

**Link** : https://github.com/ali9653/Market-Prediction-using-LSTM

## Education

2019-06 - 2019-09

### Data Science Prodegree With Genpact: Data Science

*Imarticus Learning - Mumbai*

2018-01 - 2018-11

### Post Graduation: SQL And HTML

*NIIT Limited - Mumbai*

2014-09 - 2017-11

### Bachelor of Science: Information Technology

*Valia C.L. College - Mumbai*

## Machine Learning Skills Detailed Overview

**Data Science :**
a) Machine Learning : Linear Regression, Logistic Regression, RandomForest, Decision Tree, SVM, GradientBoost, XGBoost, K-Means Clustering, HyperParameter tuning..
b) Deep Learning and Neural Networks: CNN, ANN, RNN, Tensorflow.
c) Natural Language Processing : NLTK, Spacy, Regular Expressions, Tokenization, Lemmatization, Stemming, Stop Words, Phrase Matching, Parts of Speech Tagging, Named Entity Recognition, Sentiment Analysis, Topic Modelling(LDA, Guided LDA), Recommendation Engine.
d) Google Cloud : Google Compute Engine, Google App Engine, Google Biguery, Google MLKIT, Google AutoML.

**SQL :** Key Constraints , Clauses , Joins , Stored Procedures , Views , Subqueries.

**MS Office :** Advanced Excel, PowerPoint, MS Word.

**Tableau :** Create Barcharts, Create Area Charts, Create Maps, Create Scatterplots, Create Piecharts, Create Treemaps, Create Interactive Dashboards, Create Storylines, Understand Types of Joins and how they work, Work with Data Blending in Tableau, Create Table Calculations, Work with Parameters, Create Dual Axis Charts, Create Calculated Fields, Create Calculated Fields in a Blend
Export Results from Tableau into Powerpoint, Word, and other software, Create Data Hierarchies.

## Master List of All Algorithms

Following is the link for all my R and Python Algorithms and Machine Learning Projects:

- **https://github.com/ali9653/Data-Science---Machine-Learning-and-Deep-Learning**