



# Muhammad Shafay Amjad

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## Work experience

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### NorthBay Solutions

Feb 2019 — Present

Machine Learning Engineer/Sr. Software Engineer

- Maintain and arrange dynamic machine learning models along with tune able.
- Develop Machine Learning full pipeline and Architecture using AWS Cloud
- Provide full fledge mechanics for machine learning dynamics and graph database access to recommendation engines using AWS Neptune.
- Direct client side communication along with delivery and analysis with their data scientists
- AWS Solutions Consultancy along with development
- Big Data Solutions dynamics with Machine learning.
- Alexa Skill developments & deployments for automation of cloud.

### NorthBay Solutions

Sept 2017 — Feb 2019

Machine Learning Engineer |Software Engineer

- Develop Advanced machine learning algorithms for solutions.
- A.W.S services integration for model deployment.
- Create Recommendation Engines for different domain customers.
- Maintain and arrange dynamic machine learning models along with tuneable.
- Use Big data and D.W.H technologies with machine learning models.
- Time Series Analysis for E-commerce Based Engines
- Automation of domain with Virtual Assistants
- Reinforcement-based classifications
- Object Recognition Using YOLO
- Deep Learning for finance & Classifications

Tools I used: **Python**, R, h2o, Apache Flink, flask, AWS SageMaker, **AWS s3**, **Alexa integration**, **Dynamodb**, **AWS Alexa**, **AWS lambda**, AWS EMR, spark, HDFS, Hadoop

Packages : , **sklearn**, **scipy**, **numpy** **pandas**, Scikit-multilearn, Keras, Tensorflow(basic) , sqlite3, pymysql, stats model, dask, xgboost, H2o

### Sharpe Stock(Auto Stock) AUS Contract

Mar 2017 — Aug 2017

Junior Data Scientist

- Develop solutions using Cloud-based technologies.
- Time Series Analysis and Forecasting on Reuters stock
- R&D on Video Optimizations using ML
- Machine learning regression and classification

Tools I used: **Python, EC2, RDS(AWS), AWS Redshift, AWS Sagemaker, AWS Lambda**  
 Packages: **sklearn, statsmodel, quandl**

## Teradata

18 July 2016 — 30 Sept 2016

Data Integration GDC intern

- Writing & optimize complex SQL.
- E.T.L development using Teradata tools and utilities.
- Organized and maintained technical documentation that is required for supporting solutions.
- Develop procedures for integration of Data warehousing solutions in an operative IT environment

## Qualifications

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Bachelors of Science in ComputerScience Hons( 3.38/4.0) CGPA

AWS CERTIFIED CP

Specialization in Python

Specialization in Executive DataScience

AWS Technical/Cloud Practitioner Certification

Specialization in Advanced Machine Learning (ongoing)

Basis Statistics Certifications

Deep learning introduction

Teradata Module for Python, Complex Aggregation, and Queries

Machine Learning Specialization

## Interests

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- **Software Development.**
- **Data Sciences**
- **Data Integration**
- **Data Mining & Business Intelligence**
- **Statistical Learning**
- **Automation of boring stuff through AI**
- **Machine Learning and Natural language processing**
- **Deep Learning & Machine Learning Trading Algorithms**

## Education

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Bachelor of Science in ComputerSciences

Nov 2013 — Sept 2017

G.C.U Lahore

CGPA 3.38/ 4.0 , Majors: Compiler Construction, Databases, Data ware housing, Natural Language Processing, Object Oriented Analysis and Design , Data Structures, Theory of Automata, Artificial Intelligence and Neural Network, Software Engineer , Statistics and some other minor courses including psychology.

Code Quality Crafting

2019 — 2019

University of Toronto on Coursera

Code Quality with maximum achievement of source code and edge cases handlings.

## Specialization in Statistics

2018 — 2019

University of Amsterdam on Coursera

Basic Statistics, Inferential Statistics, Statistical Model Fitting.

A 3 month statistics specialization focused on core statistics.

## Specialization in Deep Learning

2018 — 2018

deeplearning.ai on Coursera

Deeplearning models using Keras, Sequential models, CNN, RNN, LSTM.

## Specialization in Executive Data Sciences

Aug 2016 — Oct 8, 2016

Johns Hopkins University Maryland USA on Coursera

**A Crash Course in Data Science, Building a Data Science Team, Managing Data Analysis, Data Science in Real Life, Executive Data Science Capstone Project**

Verify at : <https://www.coursera.org/accountaccomplishments/specialization/certificate/9F7MQ7CRKAXZ>

## Python For EveryBody Specialization

Sept 2015 — APRIL 6 2016

University of Michigan USA on Coursera

**Programming for Everybody, Python Data Structures, Using Python to Access Web Data ,Using Data Bases in Python, Capstone: Retrieving, Processing, and Visualizing Data with Python**

Verify at : <https://www.coursera.org/account/accomplishments/specialization/certificate/S7LFZBFD5KAP>

## Exam1 and Exam 2 WBT's

— Sept 2016

Teradata

Teradata Basic Certifications, Teradata Advance and Complex Queries, Teradata Architecture Concepts, Teradata Date/Time Formatting Concepts, Teradata Complex Aggregations.

## Projects

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- **Project:** DnB, Graph database automation for their recommendation engines( **Tech Lead, Sr ML**)
- **Project:** PSL, Automation of Warehousing and Development( **Sr .Data Engineer**)
- **Project:** Intelligize, Document Recommendations and custom Analysis along with forecasts.( **Sr.ML Tech Lead**)
- **Project:** Wolters Kluwer Domain Textual Classification, increasing accuracy from 62% to 87%.( **ML Developer**)
- **Project:** Carnival - Time Series Customer Loyalty Analysis & Predictive Analytics. ( **Sr. ML Developer**)
- **Project:** eVision- Alexa Skill kit for Education vision automation using rule-based engines. ( **ML Engineer**)
- **Project:** Gerdau - Time Series Forecasting with Recommendation Engine, steel company based user behavior analysis and recommendation. (**ML Developer**)
- **Project:** Keurig - Artificial Intelligent assistant integration with (data lake)Dataware house for automation along with BI users. (**ML Developer**)
- **Project:** ArticleGenderClassifier: A ML-based textual classification program able to identify the gender who wrote a paragraph or a write-up or a document provided. (**DataScientist**)
- **Project:** Pysha- A virtual assistant with intelligence and huge API access for its intelligence acting as information retrieval, extractor engineer. Along with chatbot and OS automation. (**TeamLead**)
- **Project:** HRScreeener: A System able to recommend a Candidate CV for a particular job( **Developer**)
- **Project:** Reuters: A mini data warehouse along with time series forecasting of future values and predictions(**Junior data scientist**)

## References

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GitHub : <https://github.com/shafaypro/>

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