



# 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 fledged mechanics for machine learning dynamics and graph database access to recommendation engines using AWS Neptune, Spacy and NLTK modelling.
- Direct client side communication along with delivery and analysis with their data scientists
- AWS Solutions Consultancy along with development CF and Deployment using AWS
- Big Data Solutions dynamics with Machine learning and deep learning modelling & 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

## Interests

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- **Software Development.**
- **Cloud Computing**
- **Data Sciences**
- **Python Engineering**
- **Cloud Services**
- **Automation of boring stuff through AI**
- **Machine Learning and Natural language processing**

## 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.

## Certifications

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AWS Certified Solution Architect (Associate)

AWS Certified Developer Associate

AWS Certified Cloud Practitioner

Specialization in Python (2015) - University of Michigan on Coursera

Specialization in Ex. Data Science(2016) - Johns Hopkins University on Coursera

Statistics Specialization(2016) - University of Amsterdam on Coursera

Teradata SQL(2016) - Professional Service Consultant Position

Specialization in Deep Learning (2019) - Deeplearning.ai

Crafting Code Quality Certification (2018)

Specialization with Statistics in python(2019) - University of Michigan on Coursera

Reinforcement Learning (in progress)

# 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.( **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) Datawareaware 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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