Muhammad Shafay Amjad

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Work experience

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.
- 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 and 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

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

- **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

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 specailization 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

- **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) Datawareware 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:** HRScreener: 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

Available upon request