

Waleed **Ahmad**

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Address

Permanent: H#232, St#91 Sector E-11/2 Islamabad, Pakistan

Education

2012 - 2016 Bachelor's of Mechatronics Engineering

CGPA: 3.25/4.00

Thesis Title: "Design and Fabrication of a Brain Controlled Anthropomorphic

Prosthetic Hand"

Supervisors: Asst. Prof. Dr. Mohsin Islam Tiwana, Asst. Prof. Nida Aziz Implemented a fully operational realtime brain-computer-interface (BCI) control for a prosthetic hand. Also designed and fabricated an anthropomorphic prosthetic hand with 6 D.O.F.

Skills

Mail

addo.ai

Personal:

gmail.com

Machine Learning

Numpy, Pandas, Scikit-learn, Tensorflow, Keras

Work: waleedahmad@

Distributed Document Store/Search Tool

Log Ingestion Tools

Kinesis Agent, Fluentd, Logstash, Filebeat

Visualization

Matplotlib, Seaborn, Tableau, Power BI

Big Data Analytics

Apache Spark, Apache Hive

Cloud Platforms

AWS, Azure, GCP

Elasticsearch

NUST, Pakistan

LinkedIn

Experience

www.linkedin.com /in/waleedbinzafar

waleed.bin.zafar@

02/19 - Now Lead Data Scientist

ADDO AI, Lahore | Islamabad | Singapore

Responsibilities:

- Tech Lead for numerous projects with various multinational organizations
- Responsible for upskilling employees in Machine Learning and Big Data domains within the AWS ecosystem
- Developing POCs for various AI & ML use-cases
- Conducting hiring interviews on behalf of reputed clients for ML positions
- Generating use-cases and Machine Learning applications in diverse business domains

Project Themes (see detailed list in projects section):

- · Enterprise Data Strategy: Analysis, Solutioning, Roadmapping
- · Machine Learning assisted CRM
- · Fraud Detection in banking
- · Targeted Marketing in retail
- Predictive Sales Analytics
- · Anomaly Detection in retail
- · Al based remote exam proctoring
- OCR applications in automation







08/20 - Now Cloud & Data Science Instructor

Dice Analytics, Islamabad

Responsibilities:

- Designing and delivering course content
- · Creating lab exercises for hand-on practice of areas covered

Courses taught:

Azure DP-100: Designing and Implementing a Data Science Solution on Azure

01/20 - Now Customer Engineer

ADDO AI, Lahore | Islamabad | Singapore

Responsibilities:

- Liaising with stakeholders for determining business pain points
- Helping clients reach the best technical solution for their Data and Al needs
- Performing feasibility analyses for Machine Learning and Big Data usecases
- Architecting cloud based Machine Learning solutions, Data Lakes, Data Warehousing solutions
- Working closely with sales and business units to create proposals for projects

01/19 - 09/19 Data Science Lead

Numen Inc., Palo Alto, California

Responsibilities:

- · Advising with Machine Learning strategy for a security product
- Devising real-time anomaly detection with collected logs for catching potentially malicious processes
- Creating Data Pipelines for the Machine Learning application

Project Theme:

Anomaly Detection in cyber-security applications

KPIs:

- Successful detection of numerous Malware, Trojans, and Exploits via anomaly detection module
- Declared partners by Xilinx
- Favorable reception of concept at Defcon Conference 2019

06/16 - 02/19 Data Engineer

Ebryx Pvt. Ltd., Lahore, Pakistan

Responsibilities:

- Creating Data Pipelines for Machine Learning applications
- Performing ETL tasks in Local and Cloud settings
- Creating Machine Learning models and servings
- · Conducting hiring interviews for Data Science team

Project Themes:

- Centralized log collection and analysis systems
- · Al based Video Surveillance Systems
- Road Safety applications using Computer Vision
- · Continuous authentication using User Behavior Analysis
- Anomaly Detection in cyber-security applications

07/14 - 12/14 Data Science Intern

Ebryx Pvt. Ltd., Islamabad, Pakistan

Certifications

- Amazon Web Services Certified Big Data Specialty (valid - 17 October 2022)
- Amazon Web Services Certified Machine Learning Specialty (valid 3 December 2022)

 Microsoft Certified: Azure Data Scientist Associate (valid - 14 October 2022)

Projects

Data Strategy Enterprise Data Architecture Design for one of the Largest Hospital Networks in the USA

Conception of a data strategy For a US based hospital chain operating in 3 states. Included analysis of current state, identification of issues and goals, proposing a future state, and drawing a transformation road-map, staying mindful of security, governance, data management, analytics and reporting requirements, as well as other organizational needs

This data strategy was evaluated by Gartner against a strategy by PwC, and received Gartner's highest approval. The client moved to implement this within a few months with full stakeholder buy-in across the organization. Technology stack involved overall was Azure Cloud Ecosystem, Epic Health Management System, SAP HANA, Hadoop, Oracle, Informatica as well as Denodo

Al based Billing Automation for one of Pakistan's Biggest Power Company

Using images of power meters uploaded by meter-readers across a metropolitan city, a cloud based solution was developed to extract the billing information from the picture and a batch service was deployed to the cloud.

AWS, Amazon Rekognition, Amazon Textract, Amazon Sagemaker, Tensorflow

Al assisted remote exam proctoring

Based on the video and audio stream being captured from candidates taking exams remotely on their laptops, video and audio based anomaly detection solutions were created to help the proctor spot suspicious (possibly unethical) behaviour.

AWS, OpenCV, Tensorflow.JS, Scikit-learn

First-touch Customer Lifetime Value (CLTV) Prediction for one of the World's Leading Travel Retailer

On the first transaction, predict the lifetime value of the customer, so that the business can identify and invest in potentially valuable customers early on

AWS, Sagemaker, Alteryx, EMR, Spark, Hive, Tensorflow, Keras

Daigou Identification for one of the World's Leading Travel Retailers

Identify professional (surrogate) shoppers who take benefit from subsidised prices and shop in bulk to further sell at premium rates, hurting the company's business

AWS, Sagemaker, EMR, Spark, Tensorflow, Keras, Identification of surrogate shoppers

Predictive Sales Analytics

Predict the demand of certain SKUs at regional stores, to aid in logistics decision making as well as in dynamically pricing the SKUs

AWS, Sagemaker, EMR, Spark, Tensorflow, Keras, Sales Predictions at user granularity

Targeted Marketing Campaigns for one of the World's Leading Travel Retailer

Raised the response for email campaigns by 40% for one of the world's biggest international retail stores

AWS, Sagemaker, EMR, Spark, Tensorflow, Keras, Market Segmentation, Influence Modeling, Propensity Modeling

Fraud Detection in Financial Payment Transactions

A top Asian financial services company wanted to automate the process of abnormal activity detection in financial transactions. Their aim was to decrease the frauds happening in their payment methods.

Azure, Tensorflow, Keras, Anomaly Detection in Transactional Data

Reactivation of Inactive Customers for one of the World's Leading Travel Retailer

Our client undertook a customer retention initiative and identified re-activation and re-capturing

of dormant customers to be an integral part of this.

AWS, Sagemaker, EMR, Spark, Customer Segmentation

Real Time Log Analytics and Anomaly Detection for a Large Enterprise

Stream log files in a number of systems to a central data repository, and detect anomalies to highlight potential security risks

AWS, Kinesis, Data Stream, Lambda, Elasticsearch, Spark, Flask, ML assisted Cybersecurity

Pedestrian Detection and Tracking Product

A pedestrian detection and tracking solution was devised which was adaptable in diverse settings and applications. The product was tested in-house.

Deep learning, Tracking, Python

Order information retrieval from restaurant receipts

OCR, Tesseract, Python

Deduplication of Address Records for hyper-local applications

Python, NLP, Deduplication

Highway Cam visibility Estimation

Computer Vision, Visibility, Machine Learning, OpenCV, Scikit Learn, Python

Object Detection and Tracking software (Vigilyx)

Deep learning, Tracking, Python, Design, Documentation, Biz-dev, ML based Video Surveillance

Centralized Log collection and Anomaly Detection

ELK Stack, Elasticsearch, Logstash, Filebeat, Spark, Anomaly Detection, Unsupervised

BCI controlled Prosthetic Hand

3D Design, Fabrication, Brain-Computer-Interface, Machine Learning, Embedded, Beaglebone, Multiclass Classification

Location-Aware News Tracker

Semi-supervised, NLP, Classification, Web-scraping, Python

Music Sheet Reader

Image processing, MATLAB

Gesture Driven Interactive Puzzle

Image Processing, OpenCV, C++

Courses (MOOCs)

- Data Engineering, Big Data, and Machine Learning on Google Cloud Platform Specialization

 Google - Coursera
 - End-to-End Machine Learning with Tensorflow on GCP
 - Production Machine Learning Systems
 - Image Understanding with Tensorflow on GCP
 - Sequence Models for Time Series and Natural Language Processing
 - Recommendation Systems with TensorFlow on GCP
- Advanced Machine Learning with TensorFlow on Google Cloud Platform Specialization

 Google Coursera
 - Google Cloud Platform Big Data and Machine Learning Fundamentals
 - Leveraging Unstructured Data with Cloud Dataproc on Google Cloud Platform
 - Serverless Data Analysis with Google BigQuery and Cloud Dataflow
 - Serverless Machine Learning with Tensorflow on Google Cloud Platform
 - Building Resilient Streaming Systems on Google Cloud Platform

Deep Learning Specialization

deeplearning.ai - Coursera

- Neural Networks and Deep Learning
- Improving Deep Neural Networks:
- Hyperparameter tuning, Regularization and Optimization
- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Sequence Models

Machine Learning Specialization

University of Washington - Coursera

- Machine Learning Foundations: A Case Study Approach
- Machine Learning: Regression
- Machine Learning: Classification
- Machine Learning: Clustering & Retrieval

Tensorflow in Practice Specialization

deeplearning.ai - Coursera

- Introduction to TensorFlow for AI, ML, and Deep Learning
- Convolutional Neural Networks in TensorFlow
- Natural Language Processing in TensorFlow
- Sequences, Time Series and Prediction
- Big Data Essentials: HDFS, MapReduce and Spark RDD Yandex Coursera

Data Science Specialization

Johns Hopkins University - Coursera

- The Data Scientist's Toolbox
- R Programming
- Getting and Cleaning Data

Machine Learning

Stanford University - Coursera

Using Databases with Python

University of Michigan - Coursera

Algorithmic Toolbox

University of California, San Diego - Coursera