Waleed Ahmad

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EXPERIENCE

Machine Learning Engineer

March 2022 - Present

eBay

San Jose, California (remote)

- Worked in the Merchandize and Ads team focused on bringing GCP capabilities to eBay improving the recommendations functionality.
- Carried out POCs for moving the business' recommendations service to Google cloud.
- Engineered data preparation and ingestion pipelines and A/B testing solutions.

Mentionworthy Projects

- Seedless Recommendations Model on GCP Set up a seedless recommendations model for placement on the homepage using Google's Recommendations AI service, and benchmarked against existing models.
- AutoML based modeling Created POCs using the Google Tabular AutoML service to train seeded and seedless recommendations models.

Competency Head, Data Science & Machine Learning

September 2021 - May 2022

Addo AI

Lahore, Pakistan

- Managed the entire bench of Addo's Machine Learning and Data Science competency at a strength of 20+ engineers.
- Cross-sectionally oversaw the delivery cycle of all Machine Learning projects organization-wide with MRR at \$500k+
- Implemented resource monitoring for capacity planning via dashboards for senior management.
- Implemented organization wide training pathways for upskilling of Machine Learning and Data Science resources, through certification streams and knowledge sharing sessions
- Streamlined hiring processes for the competency to improve quality in hiring while minimizing the process overheads

Mentionworthy Projects

- Hospital Operational KPIs monitoring and projections Built data models for reporting and forecasting models of hospital operational KPIs for the leadership to steer staffing decision-making and workforce planning, leading to 3 hires in the first 2 months, improving nursing KPIs.
- Workplace Analytics using video Led development of a video analytics platform for providing a number of KPIs
 regarding video feeds showing employee statistics.

Lead Data Scientist

February 2019 - August 2021

Addo AI

Lahore, Pakistan

- Lead numerous Machine Learning projects in team sizes of 2-5 with various multinational enterprise clients
- Upskilled employees in Machine Learning and Big Data domains within the organization by means of training sessions and certification programs
- Developed use-cases and helped clients find Machine Learning applications in diverse business domains
- Assisted in business development, pre-sales, and professional services, working closely with client business units to create technical proposals and POCs for data projects

Mentionworthy Projects

- Predictive risk of readmissions in heart failure patients Led the implementation of a model deployed on Azure and integrated with on-premise EHR systems. Trial period ensured prevention of 7-13 cases per month.
- Data lake implementation Worked in a team of data architects to design a 3 tiered data lake using Azure deltalake technology for a healthcare client. Data lake structure taxonomy allowed for quick implementation of reporting/dashboarding and ML usecases from curated data.
- MLOps platform Led a team of ML and Cloud Engineers in the design and implementation of an enterprise scale MLOps architecture immediately used for several usecases.
- Data Strategy Helped conceive a data strategy for a US based hospital chain suggesting major technology overhaul. The client moved to implement this within months with complete stakeholder buy-in across the org.
- Targeted Marketing Campaigns Raised the response for email campaigns by 40% for one of the world's biggest international retail stores using Market Segmentation and Propensity Modeling.
- Fraud Detection in Payment Transactions Developed an anomaly detection model for a top Asian financial services company using deep neural networks, achieving 15% better performance than heuristic rules.

Cloud & Data Science Instructor

August 2020 - October 2020

Dice Analytics Islamabad

• Designed and delivered course content for Azure DP-100: Designing and Implementing a Data Science Solution on Azure

Data Science Lead

January 2019 - September 2019

Numen Inc. Palo Alto, California (remote)

- Developed a real-time anomaly detection system with collected logs for catching potentially malicious processes as part of a cybersecurity product
- Created Data Pipelines for the Machine Learning application within the solution
- Successfully detected several known numerous Malware, Trojans, and Exploits via anomaly detection module
- The product was well-received at Defcon Conference 2019 and Numen was declared Xilinx partner

Data Engineer/Data Scientist

June 2017 - February 2019

Lahore, Pakistan

• Created Data Pipelines for Machine Learning applications, performed ETL tasks in Local and AWS environment and created Machine Learning models & servings for applications

Mentionworthy Projects

- Real Time Log Analytics Developed streaming pipeline for collecting system log data to cloud using Amazon Kinesis and detected anomalies to highlight potential security risks
- Pedestrian Detection and Tracking Product Developed a pedestrian detection and tracking solution providing alerts for activity in restricted access areas.

EDUCATION

Ebryx Pvt. Ltd.

Georgia Institute of Technology (GATech)

Aug. 2021 - Present

Master of Science in Analytics

National University of Science and Technology (NUST)

Sep. 2012 – Jun. 2016

Bachelor of Engineering in Mechatronics Engineering

Focus: Robotics and Automation

TECHNICAL SKILLS

Machine Learning	Spark MLlib, Horovod, Numpy, Pandas, Scikit-learn, Tensorflow, Keras
MLOps Tools	MLFlow, Azure ML Service, Amazon Sagemaker, Vertex AI, Docker, Databricks
Data Engineering	dbt, Snowflake, BigQuery, Elasticsearch
Visualization	Power BI, Plotly Dash, Matplotlib, Seaborn, Tableau, D3.js
Big Data Analytics	Databricks, Apache Spark, Apache Hive, AWS Lambda
Streaming	Amazon Kinesis Streams, Apache Kafka

COURSES / MOOC(s)

• Deep Learning Specialization	deep learning.ai - $Coursera$
• Advanced Machine Learning with TensorFlow on GCP Specialization	Google - Coursera
• Data Engineering, Big Data, and Machine Learning on GCP Specialization	Google - Coursera
• Machine Learning Engineering for Production (MLOps) Specialization	deeplearning.ai - Coursera

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 2023)

LANGUAGES

• English IELTS: 8.5 Band — TOEFL: 111 — C2 Level

• German A1 Level