

ABDULLAH ASHFAQ

PERSONAL INFORMATION	Contact Number : +92 335 7097479 ✉ abdullahashfaq11@gmail.com	github.com/AbdullahAshfaq linkedin.com/in/abdullahashfaq11/
EDUCATION	Master of Science in Data Science Halicioglu Data Science Institute, UC San Diego Bachelor of Electrical Engineering Knowledge Area - Computer Engineering SEECS, National University of Sciences and Technology (NUST), Islamabad, Pakistan	2023 - 2025 2015 - 2020
EXPERIENCES AND PROJECTS	Data Scientist - Production Afiniti (Remote) DS Applications : Customer Segmentation, Churn Prediction, LTV Prediction <ul style="list-style-type: none">[Behavioural Pairing] : Created and productionized models that intelligently pair customers and agents in a call center environment[Metric/KPI Design] : Designed metric to be used in optimizing client's revenue[Statistical Testing] : Used statistical tests (A/B testing, power test, hypothesis testing) to quantify impact of changes and confidence intervals around them[Production Monitoring] : Automated monitoring of production and freed time of AI Production team by 20%[Data Visualization] : Designed dashboards and tools to aid in identification of common issues[Data Pipeline] : Ensured data integrity by designing automated alerts as well as visualizations[Reporting] : Reported results and conveyed complex concepts in simple terms to client-facing teams[Communication] : Collaborated with cross-functional teams to identify business issues and translated business problems and insights into data science problems[Ownership] : Reviewed and signed-off on the data pipeline and models on accounts before going live Technical Delivery Consultant/Data Scientist - Professional Services Totogi - Crossover for Work <ul style="list-style-type: none">[ETL] : Designed an ETL migration tool 30x faster than existing solutions and successfully migrated over 50 customer accounts using it[Software Development] : Deployed and integrated Facebook's Magma Core with Totogi OCS[MVP Implementation] : Designed and implemented tools and services using Python and AWS infrastructure for facilitating demos and internal teams[Legacy Software Upgrade] : Migrated software (C/C++) from RHEL7 to 8 saving the company \$3 Million[API Testing] : Wrote custom tools in Python for automated monitoring and testing of Totogi API Research Intern for Machine Learning and AI TUKL-NUST Research and Development Center <ul style="list-style-type: none">Developed open-source library to create custom hardware architectureRestructured algorithms to achieve Hardware-Software co-optimizationImplemented the algorithm for binarization using integral image on FPGA	July 2020 - Jan 2022 Tools : Stan, R, Python, MySQL Jan 2022 - Sept 2023 Tools : Python, Flask, GraphQL, AWS, Docker, Kubernetes June 2017 - June 2019 Tools : Vivado HLS/C++, Python, Pytorch
SKILLS	Certifications : AWS Cloud Practitioner, AWS Solutions Architect Databases : MySQL, Greenplum, Athena, GraphQL Tools & Frameworks : Airflow, Pytorch, Tensorflow, Caffe, Keras, Scikit-Learn DevOps Tools : Docker, Git, Kubernetes, Shell Scripting ML Algorithms Used : Regression (Logistic, Polynomial, Ridge/Lasso), Classification (Logistic, XGBoost, Decision Tree, Random Forest, SVM), Clustering, Bagging, Boosting, Autoencoders, CNN, DNN, RNN, LSTM Worked on DS Problems : Customer Segmentation, Churn Prediction, Incremental Effects	
LEADERSHIP EXPERIENCE AND AWARDS	Afiniti — Led teams on 2 clients simultaneously which delivered up to 4% revenue gain — Created friendly and innovative environment in my team and personally coached struggling members Summer@EPFL Internship Program Value : 1,600 USD/month. Acceptance Rate ≈ 1% CERN Openlab Internship Program (2x)- PASSED Value : 2,600 USD/month. Acceptance Rate ≈ 7.5%. (Cancelled in 2020 due to Coronavirus pandemic) US Dept. of State Global UGRAD Exchange Scholarship — Represented Pakistan in a program with 2% acceptance rate based on leadership skills Gold Medal in High School and Merit Scholarships in College	2021-2022 June 2019 - Sept 2019 2019 and 2020 2018 2015-2020