Saad Khan

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TEHCNICAL SKILLS

LANGUAGES
Python • R • MySQL • Basic Java
HTML, CSS & Javascript • LaTeX

SOFTWARE
Ipython • R Studio • Weka • Eclipse
MS Office • Tableau • Alteryx

PYTHON PACKAGES
numpy • scikit-learn • pandas • ggplot
matplotlib • scipy • pymongo

R PACKAGES
ggplot2 • dplyr • ggally • ggpairs
reshape2 • mclust • nbclust • clvalid

DATABASES
XML • JSON • SQL

STATISTICS
std. deviation • variance • confidence level
hypothesis testing • significance tests (z-test, t-test, Mann-Whitney U, χ^2)

MACHINE LEARNING
supervised • unsupervised • natural language processing • feature selection & transformation • Performance Analysis

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY
MS in Computer Science
Expected Dec 2017 | Online
Specialization: Machine Learning
College of Computing
Cum. GPA: N/A

UDACITY
Nanodegree
Graduated August 2015 | Online
Specialization: Data Analyst

UNIVERSITY OF ENGINEERING & TECHNOLOGY
BS in Electrical Engineering
Graduated Mar 2007 | Lahore, Pakistan
Specialization: Computer Engineering
College of Engineering
Honor's List
Cum. Percentage: 78%

CERTIFICATIONS

Coursera - Data Science Specialization
Dec 2015 - present [4 Courses]
DataCamp - Data Science Track
Jun 2015 - present [3 Courses]

PROJECT EXPERIENCE

DATA VISUALIZATION USING D3 ⬚ github 📈 visualization
August 2015 | Udacity - Nanodegree
The visualization is visitor comparison for the 5 most visited National Parks in the US and was created using javascript libraries (D3.js and dimple,js). It includes elements of interaction/animation for user to have better understanding of the data.

PREDICITIONS WITH SCIKIT LEARN ⬚ github 📑 report
June 2015 | Udacity - Nanodegree
Predictor identifies which Enron employees were more likely to have committed fraud using machine learning (python) based on public Enron financial/email data.

DATA ANALYSIS WITH R ⬚ github 📄 markdown
May 2015 | Udacity - Nanodegree
The project was to create Rmd and the html files for the multi-variate analysis performed on white and red wine data sets for Vinho Verde wines in Portugal.

WRANGLING USING MONGODB ⬚ github 📑 report
March 2015 | Udacity - Nanodegree
The objective of the project was to assess the quality, accuracy and completeness of the OpenStreetMap data for Minneapolis, MN by fixing issues using a python script and analyzing it using MongoDB.

ANALYZING THE NYC SUBWAY ⬚ github 📑 report
January 2015 | Udacity - Nanodegree
The project was to use hypothesis testing to analyze if NYC Subway Ridership changed when it rained using python (panadas, matplotlib and numpy)

WORK EXPERIENCE

TELECOM TECHNOLOGY SERVICES INC. | RF Engineer
July 2012 – Present | Minneapolis, MN
Learned key requirements for RF network design in the midwest region for AT&T. Responsibilities include VoLTE/LTE/UMTS design using ATOLL, MapInfo and internal database/tools such as CSS, Filenet, Quantum, RMAP, Alteryx and AutoForms.

T-FORCE INC. | LTE RF Design Engineer
December 2010 – November 2011 | Plano, TX
Provided LTE RF design for AT&T markets using ATOLL RF design tool. Performed audits of UMTS design put forward by AT&T and determined conversion to LTE.

LCC INTERNATIONAL INC. | RF Design Engineer
December 2010 – December 2010 | Herndon, VA
Conducted FDD-LTE tests using 2.5 GHz LTE spectrum. Performed mobility tests for KPIs such RSSI, RSRP, SINR/CINR, MCS & throughput, using Accuver XCAL.

ABACUS CONSULTING | WiMAX RF Planning Engineer
February 2008 – December 2009 | Lahore, Pakistan
Planned WiMAX network using Motorola DAPs to meet customer requirements. Experience of analysis using ATDI for coverage, interference & modulation.

ERICSSON PAKISTAN (PVT) LTD. | Services Engineer
March 2007 – February 2008 | Lahore, Pakistan
Generated reports for drive tests including recommendations such as azimuth/tilt alteration. Created link budgets and interference analysis on TEMS Link Planner keeping in view the required important link design parameters.