**Murat Kahraman**

**Network Engineer & Data Science Enthusiast**

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[github.com/kahramanmurat](http://github.com/kahramanmurat)

**PROFESSIONAL EXPERIENCE**

**Sprint (T-Mobile),** Reston, VA/US December 2017 – August 2020

**RF III Engineer**

Data Analysis of VoLTE, LTE, 5G-NR Network and troubleshooting of NSN, Samsung, Ericsson OEM Feature Functionality. Large datasets was collected from different network performance tools and merged by Python using pandas and NumPy libraries. New KPI metrics were identified to find best Network Quality. Data Visualization using Tableau

**ZTE (Digi Telecom Project),** Subang Jaya, Malaysia April 2017 – August 2017

**Senior RF Engineer**

* Responsible to 2G/3G/4G Network Performance Optimization and RF Field Performance Optimization.

**Huawei ( Cellcom Project),** Petaling Jaya, Malaysia September 2016 – April 2017

**Senior RF Consultant**

* Manage Cluster Optimization and Network Performance Activities

**Huawei,** Istanbul, TurkeyNovember 2015 – August 2016

**Senior LTE RF Deployment & Optimization Engineer**

* Responsible for all delivery related activities which includes generating parameter scripts, single site verification, drive test analysis, generating cluster acceptance report, presenting it to the customer and getting the cluster acceptance approval from customer.

**Samsung,** Istanbul, TurkeyJanuary 2015 – November 2015

**RF Design & Optimization Engineer**

* Implemented Microsoft Business Intelligence BI platforms including SQL Server Integration Services SSIS , SQL Server Reporting Services SSRS , SQL Server Analysis Services SSAS

**Turkcell,** Istanbul, TurkeyMarch 2014 – January 2015

**RF Consultant**

* Multicarrier strategies of service allocation, traffic balancing, neighbor definitions Throughput optimization Day to day optimization Worst cells and KPIs analysis (CSSR, Retainability, PRACH, SHO, CQI, etc, alarm verification an analysis , strategies of optimization RF analysis, RNC compression and statistical problem detection Power Control III Algorithm, PS Accessibility, UL EDGE Throughput Optimization

**Aircom,** Kuala Lumpur, MalaysiaSeptember 2012 – August 2013

**Senior RF Consultant**

* KPI audit activity to ensure KPI formulas installed in OPTIMA meets customer’s expectation. Optimized work process by creating scripts by SQL to automate repetitive tasks. Monitor performance after major changes and generate impact reports

**EDUCATION**

**Sakarya University,** Sakarya, Turkey September 2001 – January 2006

Bachelor of Technology, Industrial Engineer

**Certifications:** SQL for Data Science| Neural Networks and Deep Learning | Machine Learning with Python |

Data Visualization | Tableau 10 | Power BI | Python for Data Science and AI |

**PROJECTS**

**Diabetes Classification Model & Tuning (Link:** [https://github.com/kahramanmurat/Machine-Learning-Classification-Project-Diabetes](https://github.com/kahramanmurat/Machine-Learning-Classification-Project-Diabetes/blob/master/classification_problems.ipynb) )

KNeighborsClassifier, Logistic Regression, SVC, GaussianNB,MLP Classifier, Decision Tree, Random Forest, Gradient Boosting, Cat Boost, Light GBM,XGBoost Model and Tuning.

**Boston Housing Regression Model & Tuning (Link:** [https://github.com/kahramanmurat/Machine-Learning-Regression-Boston-Housing](https://github.com/kahramanmurat/Machine-Learning-Regression-Boston-Housing/blob/master/boston-housing-machine-learning-model-tuning.ipynb) **)**

KNN, SVR, MLP, CART, Bagged Trees, RF, GBM, Light GBM, Cat Boost, XG Boost Model and Tuning

**Boston Crime Data Analysis (Link:** [https://github.com/kahramanmurat/Machine-Learning-Regression-Boston-Housing](https://github.com/kahramanmurat/Machine-Learning-Regression-Boston-Housing/blob/master/boston-crime.ipynb) **)**

Numpy, Pandas, Matplotlib, Seaborn and Folium Libraries were used.

**COVID-19 Data Analysis Using Python (Link:** [https://github.com/kahramanmurat/covid19-data-analysis](https://github.com/kahramanmurat/covid19-data-analysis/blob/master/covid19%20data%20analysis%20notebook.ipynb)**)**

* Analysis of Freedom to make life choices vs maximum Infection rate

**Twitter Sentiment Analysis Using Python (Link:** [https://github.com/kahramanmurat/Twitter-Sentiment-Analysis](https://github.com/kahramanmurat/Twitter-Sentiment-Analysis/blob/master/twitter.ipynb) **)**

* Twitter Sentiment Analysis Using Python, Twitter API and WordCloud

**KEY SKILLS**

Data Analysis | Stakeholder Management | Leadership & Management | Data Visualization | Sentiment Analysis| Process Improvement

**TECHNICAL SKILLS**

**Packages:** Scikit-Learn, NumPy, SciPy, Plot.ly, Matplotlib, StatsModels

**Big Data Stack:** AWS (EC2, Lambda, Kinesis, S3, DynamoDB, Redshift), Google Cloud Platform (gcloud, Compute Engine, Cloud Storage, Dataflow, BigQuery), Python, SQL,Tableau, Power BI, Power Query, Power Pivot

**Statistics/ML:** Linear Regression, Logistic Regression, Decision Tree, Random Forest, Boosting, SVM, Neural Networks, Clustering