

# EMRE OKULAR

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## EDUCATION

<b>University of San Francisco</b>	San Francisco, CA
Master of Science in Data Science	August, 2020 – August, 2021(expected)
<ul style="list-style-type: none"><li>Relevant Coursework: Python, Data Structures and Algorithms, Statistics, Data Visualization, SQL, Machine Learning, Regression, Deep Learning, NLP, Time Series, Product Analytics, Design of Experiments, Distributed Computing (Spark)</li></ul>	
<b>Yildiz Technical University</b>	Istanbul, TURKEY
Bachelor of Engineering in Computational and Applied Mathematics	September, 2012 – June, 2017
<ul style="list-style-type: none"><li>Relevant Coursework: Linear Algebra, Calculus, Discrete Mathematics, Abstract Mathematics, Algorithms, Programming, OOP, Probability, Statistics, Data Management, Optimization, Cryptography, Computer Vision, Image Processing, AI</li></ul>	
<b>Graz University of Technology</b>	Graz, AUSTRIA
Erasmus Exchange Program in Computer Science and Mathematics	October, 2014 – August, 2015
<ul style="list-style-type: none"><li>Ranked 1st among the outgoing Erasmus Exchange Program students in the department and awarded EU Scholarship.</li></ul>	

## WORK EXPERIENCE

<b>Data Science Intern</b>	January, 2021 – Present
<i>Dictionary.com</i>	Oakland, CA
<ul style="list-style-type: none"><li>Predicting click-through rate (CTR) with random forest classifier trained on website logs and cookies. Increased model accuracy by 5% using sampling and feature engineering techniques in scikit-learn pipelines.</li><li>Identifying most engaged user segments by exploring website behavior to gain insights for improving the ad auction.</li></ul>	
<b>Software Engineer</b>	August, 2017 – October, 2020
<i>Turkcell</i>	Istanbul, TURKEY
<ul style="list-style-type: none"><li>Achieved the ability to analyze streaming data in real-time and take immediate actions through outbound communication channels by developing real-time streaming data analytics systems with Lean-Agile Methodologies.</li><li>Expanded event-based scenarios such as gamification, anti-churn, up-sell, and retention resulted in a 15% increase in annual revenue by integrating high-volume data sources into complex event processing systems.</li><li>Increased monthly bundle package sales by 15% discovering customer's opinions from inbound messages in SMS channels with NLP techniques such as named entity recognition, sentiment analysis, and text classification.</li><li>Developed the capability of sending millions of messages and notifications per day by building highly scalable campaign management applications with Java, PL/SQL, and Python using best practices for software development lifecycle.</li><li>Empowered the marketing team to derive strategic insights for campaigns by creating a high-performance synchronous Java REST service for collecting and storing push notification responses in the Oracle SQL database.</li><li>Automated the daily campaign report for all channels using a vast amount of relational data with PL/SQL procedures.</li></ul>	
<b>Data Science Intern</b>	February, 2017– May, 2017
<i>EVAM Streaming Analytics</i>	Istanbul, TURKEY
<ul style="list-style-type: none"><li>Explored streaming ML algorithm papers and identified algorithms to implement by understanding business needs.</li><li>Enabled real-time clustering and outlier detection on streaming data by implementing density-based streaming clustering algorithm DenStream in the core product with Java.</li></ul>	
<b>DevOps Intern</b>	June, 2016 – July, 2016
<i>Anadolu Insurance</i>	Istanbul, TURKEY
<ul style="list-style-type: none"><li>Improved the software lifecycle by creating automated DevOps pipelines with build, test, and deploy stages with Jenkins.</li></ul>	

## PROJECTS

<b>Cancer Classification by Liquid Biopsy</b>
Achieved 73% accuracy with different models and placed in the top 10 in Kaggle private leaderboard. Fit and tuned various scikit-learn classifiers such as boosting and PyTorch deep neural networks to predict multi-class cancer types by identifying top features from microRNA profiles.
<b>ML algorithm implementations from scratch in Python</b>
Regularized Linear and Logistic Regression with Gradient Descent, Naive Bayes, Decision Trees, Random Forest, K-means Clustering, Boosting, Deep Neural Networks, CNN, RNN, recommendation engine, and automated feature selection algorithms.
<b>Ad Click Prediction</b>
Predicted ad clicks from KDD Cup dataset achieving 83% accuracy. Various classifier models, including tree-based ensemble methods used in scikit-learn pipelines applying feature selection, preprocessing, and tuning techniques with cross-validation.

## TECHNICAL SKILLS

Python (Pandas, Scikit-learn, NumPy), PyTorch, Java, R, PL/SQL, NoSQL, Spark, Kafka, Linux, Git, Docker, AWS, Jenkins