

EMRE OKCULAR

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EDUCATION

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- University of San Francisco** San Francisco, CA
Master of Science in Data Science August, 2020 – August, 2021(expected)
- Relevant Coursework: Python, Data Structures and Algorithms, Probability, Statistics, Data Visualization, Machine Learning, Deep Learning, NLP, Product Analytics, Design of Experiments, Time Series, Distributed Computing(Spark), SQL, Business Communication, Data Ethics
- Yildiz Technical University** Istanbul, TURKEY
Bachelor of Engineering in Computational and Applied Mathematics September, 2012 – June, 2017
- Relevant Coursework: Linear Algebra, Calculus, Discrete Mathematics, Abstract Mathematics, Algorithms, Programming, OOP, Probability, Statistics, Data Management and File Structures, Optimization, Cryptography, Operations Research, Computer Vision, Image Processing, AI
- Graz University of Technology** Graz, AUSTRIA
Erasmus Exchange Program in Computer Science and Mathematics October, 2014 – August, 2015
- Ranked 1st among the outgoing Erasmus Exchange Program students in the department and awarded EU Scholarship.

WORK EXPERIENCE

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- Data Science Intern** January, 2021 – Present
Dictionary.com Oakland, CA
- Predicting user click probabilities using a random forest trained on website logs and cookies to maximize ad revenue.
 - Exploring the inner clicks and navigation behavior of users to gain insights for improving the ad auction process.
- Software Engineer** August, 2017 – October, 2020
Turkcell Istanbul, TURKEY
- Built highly scalable campaign management applications with Java, PL/SQL, and Python for the direct marketing team to be capable of sending millions of messages per day.
 - Developed real-time streaming analytics systems with Lean-Agile Methodologies. Gained the ability to analyze streaming data in real-time and to take immediate actions with outbound communication channels.
 - Increased monthly bundle package sales by 15% discovering customer's opinions with text classification techniques in SMS channels.
 - Created a high-performance synchronous Java REST service for collecting and storing push notification responses in the SQL database to derive insightful metrics for the marketing team.
 - Enabled event-based scenarios such as gamification, anti-churn, and retention for business teams by integrating data sources to complex event processing systems.
- Data Science Intern** February, 2017– March, 2017
EVAM Streaming Analytics Istanbul, TURKEY
- Explored streaming ML algorithm papers and identified algorithms to implement after understanding business needs
 - Enabled real-time segmenting ability, including outlier detection for client use cases by implementing mini-batch density-based streaming clustering algorithm DenStream to the product with Java.
 - Performed tests with data from different clients as R&D processes with R, Python, Java, Apache Spark, and MOA.
- DevOps Intern** June, 2016 – July, 2016
Anadolu Insurance Istanbul, TURKEY
- Collaborated with the DevOps team to develop automated pipelines with Jenkins for application lifecycle management.

PROJECTS

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- Cancer Classification by Liquid Biopsy**
Achieved 73% average accuracy with 21 different models and placed in the top 10 leaderboard in Kaggle. Fit various scikit-learn classifiers and PyTorch neural networks to predict multi-class cancer types by identifying top features.
 - ML algorithm implementations from scratch**
Regularized Linear and Logistic Regression, Naive Bayes, Decision Trees, Random Forest, K-means Clustering, Gradient Boosting, Deep Neural Networks, recommendation engine, and automated feature selection algorithms.
 - Ad Click Prediction**
Achieved 83% accuracy in predicting ad clicks from KDD dataset with different classifier models in scikit-learn pipelines by applying feature selection, preprocessing, and tuning techniques.

TECHNICAL SKILLS

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