

EMRE OKCULAR

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EDUCATION

University of San Francisco

M.S. in Data Science

San Francisco, CA

August, 2020 – August, 2021(expected)

- Relevant Coursework: Probability, Statistics, Data Structures and Algorithms, Python, Data Visualization, Machine Learning, Deep Learning, NLP, Product Analytics, Design of Experiments, Time Series, Distributed Computing(Spark), SQL, Business Communication, Data Ethics
- Awarded College and Program Scholarships

Yildiz Technical University

Bachelor of Engineering in Mathematical Engineering

Istanbul, TURKEY

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
- Dissertation : “Clustering Methods for Big Data”
- Ranked 4th out of graduates as Honored Student in the department.

Graz University of Technology

Erasmus Exchange Program in Computer Science and Mathematics

Graz, AUSTRIA

October, 2014 – August, 2015

- Ranked 1st among the outgoing Erasmus Exchange Program students in the department and awarded EU Scholarship.

WORK EXPERIENCE

Data Science Intern

Dictionary.com

January, 2021 – Present

Oakland, CA

- Predicting user click probabilities using a random forest trained on website logs for ad revenue maximization.
- Studying inner click and navigation behavior to gain insights into the ad auction process.

Software Engineer

Turkcell

August, 2017 – October, 2020

Istanbul, TURKEY

- Worked with the direct marketing analytics team to develop cutting-edge campaign management solutions for business operations needs with Java, PL/SQL, and Python.
- Developed real-time streaming analytics systems with Lean-Agile Methodologies and gained real-time features for outbound communication channels.
- Created push notification response collection systems to provide insightful metrics to the marketing team.
- Integrated data listeners to complex event processing systems and enabled event-based scenarios for business teams.
- Improved message response system with NLP techniques for SMS channel and increased bundle package sales by 10%

Data Science Intern

EVAM Streaming Analytics

February, 2017– March, 2017

Istanbul, TURKEY

- Explored streaming ML algorithm papers and identified algorithms to implement after understanding business needs
- Implemented density-based streaming clustering algorithm DenStream to the analytics engine.
- Performed tests for R&D projects with R, Python, Java, Apache Spark, and MOA.

DevOps Intern

Anadolu Insurance

June, 2016 – July, 2016

Istanbul, TURKEY

- Collaborated with the DevOps team to develop automated pipelines with Jenkins for application lifecycle management.

Marketing Project Assistant

Dugun.com

February, 2014 – August, 2014

Istanbul, TURKEY

- Improved data quality of the customers by collecting various data in the call center and increased sales by 10%.
- Enhanced website content with editors from the marketing team and increased click rate of the blog posts.

PROJECTS

- **Cancer Classification by Liquid Biopsy, USF** May, 2021
Different types of cancer are classified by various classifiers and neural networks as a part of Advanced Machine Learning course. The final model was in the top 10 Kaggle leaderboard with 73% accuracy.
- **ML algorithm implementations from scratch, USF** April, 2021
Regularized Linear and Logistic Regression, Naive Bayes, Decision Trees, Random Forest, Kmeans, Boosting, feature selection, and importance algorithms are implemented with NumPy and PyTorch as part of ML courses.
- **Push Notification Response Collection System, Turkcell** September, 2019
As the main ability for direct marketing, a high-performance Java REST service is created for collecting and storing push notification responses for analytics purposes.
- **Short Text Message Analytics, Turkcell** November, 2018
Discovered customer's opinions with text classification in SMS channels and increased bundle package sales by 15%.

TECHNICAL SKILLS

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