

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, Reinforcement 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”
- Design Applications in Mathematical Engineering : “Machine Learning with Regression Applications”
- 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

- Participated in the Erasmus Student Exchange Program in fall and spring semesters
- Ranked 1st among the outgoing Erasmus students in the department and awarded EU Scholarship.

WORK EXPERIENCE

Data Science Intern

Dictionary.com

January, 2021 – Present

Oakland, CA

- Contributing Ad revenue maximization by building click prediction models. Developing inner click models for understanding user behavior and gaining 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

- Identified the first ML algorithm for streaming analytics concept with academic resources.
- 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.

Information Technologies and Solution Development Intern

Anadolu Sigorta

June, 2016 – July, 2016

Istanbul, TURKEY

- Collaborated with the DevOps team to develop automated pipelines 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 as a team. The final model was in the top 10 Kaggle leaderboard with 73% accuracy.
- **Push Notification Response Collection System, Turkcell** September, 2019
As the main ability for direct marketing, a high-performance Java REST service is developed for collecting and storing push notification responses for future analytics purposes.
- **Short Text Message Analytics, Turkcell** November, 2018
SMS texts which are not matched with exact keywords are collected and analyzed with NLP techniques. Meaningful keywords is used for the scenarios to improve customer experience. Bundle package sales are increased 15% by enabling to understand unmatched keywords.

TECHNICAL SKILLS

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