EMRE OKCULAR

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EDUCATION

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

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

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 inner click and navigation behavior 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 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.
- Created a high-performance synchronous Java REST service for collecting and storing in the push notification responses in the SQL database to derive insightful metrics for the marketing team.
- Integrated data sources to complex event processing systems and enabled event-based scenarios such as gamification, anti-churn, and retention for business teams.
- Discovered customer's opinions with text classification techniques in SMS channels and increased monthly bundle package sales by 15%.

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
- 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 June, 2016 – July, 2016
Anadolu Insurance Istanbul, TURKEY

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

PROJECTS

- **Cancer Classification by Liquid Biopsy** May, 2021
  Fit various scikit-learn classifiers and PyTorch neural networks to predict multi-class cancer types by identifying top features. The final model was in the top 10 Kaggle leaderboard with 73% accuracy.
- **ML algorithm implementations from scratch** April, 2021
  Regularized Linear and Logistic Regression, Naive Bayes, Decision Trees, Random Forest, K-means Clustering, Gradient Boosting, Deep Neural Networks, and automated feature selection algorithms are implemented with NumPy and PyTorch.
- **Ad Click Prediction** March, 2021
  Predicted ad clicks from KDD dataset with different classifier models in scikit-learn pipelines. Achieved 83% accuracy 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