

🛘 (+90) 505 702 22 81 | 💌 alperenkaran@gmail.com | 🌴 alperenkaran.github.io | 🖸 alperenkaran | 🗖 alperenkaran | 🎏 Alperen

"Information is in the tiny patterns that no human eye can see."

Summary_

Full-stack data scientist at an international 10-minute grocery delivery service company Getir. Proficient in Python and SQL. Experienced in using relational databases, a wide range of machine learning models (e.q. classification, regression, clustering, dimensionality reduction) and visualization tools such as Tableau. Mathematician with a deep understanding of the theory behind the learning algorithms. Capable of turning vague problems into concrete business applications. Enjoys teamwork, and always tries keep a positive mood in the team.

Work Experience _____

Getir İstanbul, Turkey

Data Scientist Sep. 2021 - Present

- · Building successful end-to-end predictive machine/deep learning models for various projects including but not limited to customer segmentation, demand forecasting, propensity modeling and churn prediction.
- Writing complex SQL queries for data analysis.
- Creating Tableau workbooks to track the results of predictive models.
- · Writing python scripts for ETL pipelines.
- Deploying data science models in production environments.

Istanbul Technical University

İstanbul, Turkey

Research Assistant Dec. 2013 - Sep. 2021

- · Leading problem sessions on several mathematics courses such as Intro. to Programming (MATLAB) and Calculus.
- Proctoring, organizing and grading exams, holding office hours for students, and so on.

Technical Skills_

Machine learning, Supervised / Unsupervised learning, Classification, Regression, Clustering, Feature engineering, **Data Science**

Deep learning, Neural networks, Statistics, A/B Testing, Hypothesis testing, Algorithms.

Machine Learning Hands-on experience with numpy, pandas, matplotlib, scikit-learn (sklearn), xgboost, keras (tensorflow), pytorch etc.

Programming Python, (Postgre) SQL, MATLAB.

> Software Jupyter notebooks, Tableau, PyCharm, DataGrip, SPSS.

Other AWS (Redshift, S3, Step Functions), Git (version control), Google Cloud Platform (GCP).

Education

PhD in Mathematical Engineering, Istanbul Technical University

Thesis Title: Time Series Classification via Topological Data Analysis

MA in Psychology, Bogazici University

Thesis Title: In Search of Tonal Grounds for Short Term Melody Recognition

MS in Mathematics, Bogazici University

Thesis Title: Topologies on Families of Closed Subsets

BS in Mathematics, Bogazici University

Graduation Project: Proofs of Turan's Theorem

Istanbul, Turkey

Expected: Apr. 2022

Istanbul, Turkey

Istanbul, Turkey

Istanbul, Turkey

Publications

- 1. Karan, A., & Kaygun, A. (2021). Time Series Classification via Topological Data Analysis. Expert Systems with Applications, 115326.
- 2. Karan, A., & Mungan, E. (2018). In Further Search of Tonal Grounds in Short Term Memory of Melodies. In R. Parncutt & A. Schiavio (Ed.), Proceedings of the Fifteenth International Conference on Music Perception and Cognition (p. 237-243), Karl-Franzens Universitaet Graz.
- 3. Gillam, W. D., & Karan, A. (2017). The Hausdorff topology as a moduli space. Topology and its Applications, 232, 102-111.