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DAMOGENTOT MATTEMATICAN

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

Summary_

Data Scientist at an international 10-minute grocery delivery service company Getir. Proficient in Python and SQL. Experienced in using a wide range of machine learning models (e.g. classification, regression, clustering, dimensionality reduction) and sharing the results with other departments via 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 that periodically run on airflow pipelines.

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 _____

Data ScienceMachine learning, Deep learning, Algorithms, Statistics, Classification, Regression, Clustering, Feature engineering.Machine LearningHands-on experience with Python libraries such as numpy, pandas, matplotlib, scikit-learn, xgboost, keras (tensorflow).ProgrammingPython, Bash, (Postgre)SQL, LaTeX.SoftwareJupyter notebooks, Tableau, PyCharm, DataGrip, SPSS.

Other AWS (Redshift, S3, Step Functions), Git.

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

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2019

Istanbul, Turkey

2015

Istanbul, Turkey

2013

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.

ALPEREN KARAN · RÉSUMÉ