



# Alperen Karan

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## Experience

### **Data Scientist, Getir; Istanbul, Turkey – 09.2021 - Present**

- Created a machine learning model for client segmentation that increased push notification response rate from 2% to 11%.
- Designed a warehouse-based bag usage forecast with an error margin of less than 10%.
- Deployed machine learning models into production and created Tableau dashboards for project maintenance.
- Built a propensity model with a 68% coverage for the top 20% clients.
- Constructed a machine learning model that predicts organic clients based on initial orders and increased order count by 26%.
- Developed an address matching model to determine clients that live together.
- Designed a post matching model to find the most suitable jobs for job seekers in GetirJobs domain.

### **Research Assistant, Istanbul Technical University; Istanbul, Turkey – 12.2013 - 09.2021**

- Assisted MATLAB programming and several calculus courses.
- Created a Python program that finds possible errors in optical forms, reducing hours of work to a few minutes.

## Skills

**Data Science:** Machine learning, deep learning, classification, regression, A/B testing, statistics, clustering, hypothesis testing, algorithms, data visualization.

**Programming:** Python, SQL.

**Libraries:** Scikit-learn (sklearn), numpy, pandas, matplotlib, xgboost, keras, tensorflow, pytorch, seaborn.

**Technologies:** AWS (Amazon Web Services), Redshift, Step functions, S3, Airflow, Git (version control), Bitbucket, Github.

**Software:** Jupyter notebooks, Pycharm, DataGrip, Tableau.

## Education

- Ph.D., Mathematical Engineering, Istanbul Technical University, Istanbul, Turkey, 2022.
- M.A., Psychology, Bogazici University, Istanbul, Turkey, 2019.
- M.S., Mathematics, Bogazici University, Istanbul, Turkey, 2015.
- B.S., Mathematics, Bogazici University, Istanbul, Turkey, 2013.